SyncMaster 400MP,460MP,400MPn, 460MPn

# LCD Monitor

## User Manual

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# Safety Instructions

## Notational

**Note**

These safety instructions must be followed to ensure your safety and prevent property damage.

Make sure to read the instructions carefully and use the product in the correct manner.

**Warning / Caution**

Failure to follow directions noted by this symbol could result in bodily harm or damage to the equipment.

**Notational Conventions**

| | |
|---|---|
| Prohibited | Important to read and understand at all times |
| Do not disassemble | Disconnect the plug from the outlet |
| Do not touch | Ground to prevent an electric shock |

## Power

When not used for extended period of time, set your computer to DPM.

If using screen saver, set it to active screen mode.

The images here are for reference only, and are not applicable in all cases (or countries).

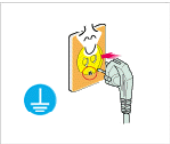
Shortcut to Anti-Afterimage Instructions

Do not use a damaged power cord or plug or a damaged or loose power outlet.

- Otherwise, this may result in electric shock or fire.

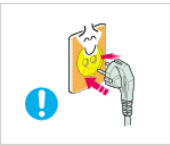
Do not touch the power plug with wet hands when removing or plugging the plug into the outlet.

- Otherwise, this may result in electric shock.



Make sure to connect the power cord to a grounded power outlet.

- Otherwise, it may result in electric shock or personal injury.



Ensure that the power plug is plugged into the power outlet firmly and correctly.

- Otherwise, this may result in fire.

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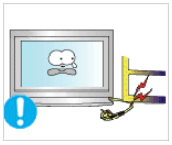
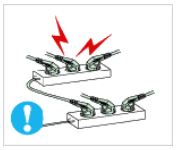


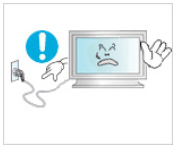
Do not forcefully bend or pull the power plug and do not place any heavy material on it.

- Otherwise, this may result in fire.



Do not connect multiple appliances to the same power outlet.

- Otherwise, this may cause fire due to overheating.



Do not disconnect the power cord while using the product.

- Otherwise, this may result in damage to the product due to electric shock.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

- This may cause electric shock or fire.

Use only the power cord provided by our company. Do not use the provided power cord of another product.

- Otherwise, this may result in fire or electric shock.

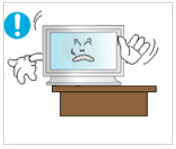
## Installation

Be sure to contact an authorized Service Center when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it operates for 24 hours such as at airports, train stations etc.

Failure to do so may cause serious damage to your monitor.

Ensure that at least two persons lift and move the product.

- Otherwise, it may be dropped and cause personal injury, and/or damage the product.

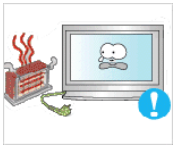


When installing the product in a cabinet or rack, make sure that the front end of the bottom of the product does not project out.

- Otherwise, it may fall or cause personal injury.
- Use a cabinet or rack of a size appropriate to the product.

DO NOT PLACE CANDLES, MOSQUITO REPELLANT, CIGARETTES AND ANY HEATING APPLIANCES NEAR THE PRODUCT.

- Otherwise, this may result in fire.



Keep heating appliances as far away from the power cord or the product as possible.

- Otherwise, this may result in electric shock or fire.

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Do not install it in a badly ventilated location such as a bookcase or closet.

- Otherwise, this may result in fire due to an increase in the internal temperature.

When putting the product down, make sure to put it down softly.

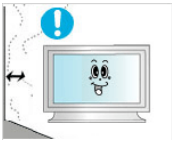
- Otherwise, this may result in damage to the screen display.

Do not place the front of the product on the floor.

- Otherwise, this may result in damage to the screen display.

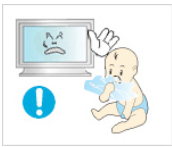
Ensure that an authorized installation company installs the wall mount.

- Otherwise, it may fall and cause personal injury.
- Make sure to install the specified wall mount.



Install your product in a well ventilated location. Ensure that there is a clearance of more than 10 cm from the wall.

- Otherwise, it may result in fire due to an increase in the internal temperature.



Ensure that the packaging vinyl is kept away from children.

- Otherwise, it may result in serious harm (suffocation) if children play with it.

If the height of your monitor is adjustable, do not place any object or part of your body on the stand when lowering it.

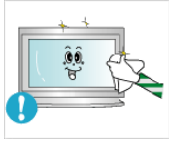
- This may cause damage to the product or the person carrying it.

## Clean

When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.

Do not spray cleaner directly onto the surface of the product.

- Otherwise, this may result in the discoloration and distortion of the structure and the screen surface may peel off.



Clean the product using a soft cloth with a monitor cleaner only. If you must use a cleaner other than the monitor cleaner, dilute it with water at a ratio of 1:10.

When cleaning the power plug pins or dusting the power outlet, clean it with a dry cloth.

- Otherwise, it may result in fire.

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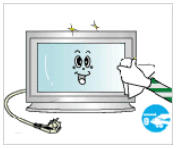
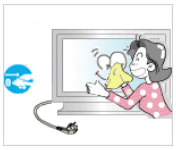


When cleaning the product, make sure to disconnect the power cord.

- Otherwise, it may result in electric shock or fire.



When cleaning the product, disconnect the power cord and clean it softly with a dry cloth.

- (Do not use chemicals such as wax, benzene, alcohol, thinner, mosquito repellant, lubricant, or cleaner.) These may change the appearance of the product surface and peel off the indication labels on the product.

Since the product housing is easily scratched, make sure to use the specified cloth only.

- Use the specified cloth adding only a little water. As the product may be scratched if there is any foreign material on the cloth, make sure to shake it thoroughly before using it.

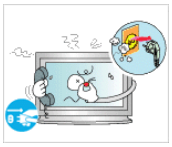
When cleaning the product, do not spray water directly onto the main body of the product.

- Ensure that water does not enter the product and that it is not wet.
- Otherwise, this may result in electric shock, fire or a malfunction.

## Others

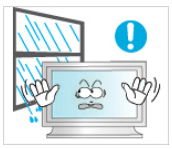
The product is a high voltage product. Ensure that users do not disassemble, repair or modify the product themselves.

- Otherwise, this may result in electric shock or fire. If the product needs to be repaired, contact a Service Center.



If there is a strange smell or a strange sound or smoke is coming from the product, disconnect the power plug immediately and contact a Service Center.

- Otherwise, this may result in electric shock or fire.



Do not place this product in a location exposed to moisture, dust, smoke, water, or in a car.

- Otherwise, this may result in electric shock or fire.

When you drop the product or the case is broken, turn the power off and disconnect the power cord. Contact a Service Center.

- Otherwise, this may result in electric shock or fire.

If thunder or lightening is occurring, do not touch the power cord or antenna cable.

- Otherwise, this may result in electric shock or fire.

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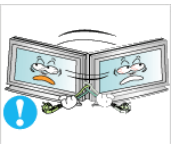
Do not try to move the monitor by pulling only the wire or the signal cable.

- Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.



Do not lift or move the product back and forwards or right and left while only holding the power cord or signal cables.

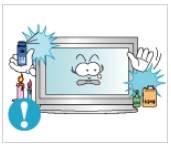
- Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.

Make sure that the ventilating opening is not blocked by a table or curtain.

- Otherwise, it may result in fire due to an increase in the internal temperature.

Do not place any containers containing water, vases, flowerpots, medicines as well as any metal on the product.

- If water or a foreign material enters the product, disconnect the power cord and contact a Service Center.
- This may result in a product malfunction, electric shock, or fire.



Do not use or keep combustible spray or flammable material near the product.

- Otherwise, this may result in an explosion or fire.

Do not insert any metal, such as chopsticks, coins, pins and steel, or flammable objects, such as matches or paper, inside the product (through the ventilating openings, input and output terminals, etc).

- If water or foreign material enters the product, disconnect the power cord and contact a Service Center.
- Otherwise, this may result in electric shock or fire.

When using a fixed screen for a long time, an afterimage or stain may occur.

- If you are not using your product for a long period of time, put it into sleep mode or use a moving screen saver.

Set a resolution and frequency appropriate to the product.

- Otherwise, your eyesight may be damaged.

When using headphones or earphones, do not turn the volume too high.

- Having the sound too loud may damage your hearing.

If you continually move closer to the product screen, your eyesight may be failing.

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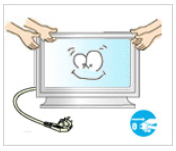
Take a rest for at least five (5) minutes after using the monitor for one (1) hour.

This reduces the weariness of your eyes.

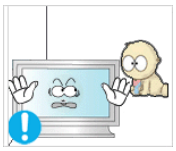
Do not install it in an unstable location such as an unstable rack or uneven surface or a location exposed to vibrations.

- Otherwise, it may fall and cause personal injury and/or damage the product.
- If you use the product in a location exposed to vibrations, it may damage the product and result in fire.



When moving the product, turn the power off and disconnect the power plug, antenna cable, and all the cables connected to the product.

- Otherwise, it may result in electric shock or fire.

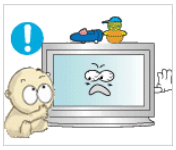


Ensure that children do not hang onto the product or climb up onto the product.

- The product may fall and cause personal injury or death.

If you do not use the product for a long period of time, disconnect the power cord from the power outlet.

- Otherwise, this may result in overheating or fire due to dust, and may result in fire due to electric shock or leakage.

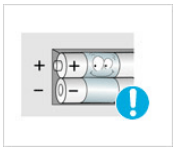


Do not place any heavy items or toys or confectionery, such as cookies etc. that may attract the attention of children and to the product.

- Your children may hang onto the product causing it to fall and this may result in personal injury or death.

Be careful that children do not place the battery in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.

- If children have had the battery in their mouths, consult your doctor immediately.



When replacing the battery, insert it with right polarity (+, -).

- Otherwise, the battery may become damaged or it may cause fire, personal injury or damage due to leakage of the internal liquid.

Use only the specified standardized batteries, and do not use a new battery and a used battery at the same time.

- Otherwise, the batteries may be damaged or cause fire, personal injury or damage due to a leakage of the internal liquid.

The batteries (and rechargeable batteries) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning the used or rechargeable batteries for recycling.

- The customer can return used or rechargeable batteries to a nearby public recycling center or to a store selling the same type of the battery or rechargeable battery.

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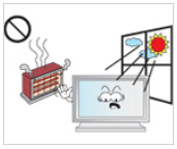


Do not place the product in a location exposed to direct sunlight or near any heat such as a fire or heater.

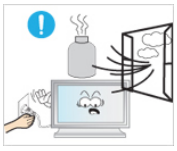
- This may reduce the lifetime of the product, and may result in fire.

Do not drop any objects onto the product or cause any impact to the product.

- Otherwise, this may result in electric shock or fire.

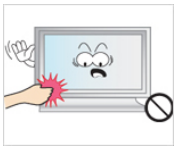
Do not use a humidifier or kitchen table near the product.

- Otherwise, this may result in electric shock or fire.



When there is a gas leak, do not touch the product or the power plug but ventilate immediately.

- If a spark occurs, it may cause an explosion or fire.

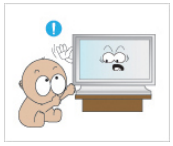


If the product has been turned on for a long time, the display panel becomes hot. Do not touch it.

- Keep the small accessories in a location out of the reach of children.

Be careful when adjusting the angle of the product or the height of the stand.

- This may result in personal injury as your hand or fingers may become caught.
- Also, if you tilt the product too far, it may fall and cause personal injury.



Do not install the product in a location low enough for children to reach.

- Otherwise, it may fall and result in personal injury.
- Since the front part of the product is heavy, install the product on a level and stable surface.

Do not put any heavy objects on the product.

- This may result in personal injury and/or damage to the product.

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# Introduction

## Package Contents

**Note**

Please make sure the following items are included with your LCD Display.

If any items are missing, contact your dealer.

Contact a local dealer to buy optional items.

**Note**

This stand is not for the Floor Standing Type.

## Unpacking

LCD Display

**Manuals**

Quick Setup Guide

Warranty Card

(Not available in all locations)

User's Guide

**Cables**

D-Sub Cable

Power Cord

**Others**

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**Others**

Remote Control

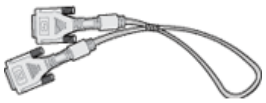
Batteries (AAA X 2)

(Not available in all locations)

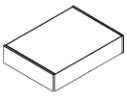
HDD Cover

BNC to RCA Adaptor Jack

**Sold separately**



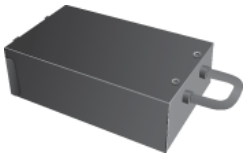
DVI Cable



Wall Mount KIT

LAN Cable

(Applicable to the MPn model only)



TV tuner box

NetWork Box

(Applicable to the MP model only)

Semi Stand KIT

BNC Cable

**Note**

- You can purchase and connect a separate network box or TV tuner box. For information on how to use these, refer to their respective user manuals.
- You can only connect one external box.

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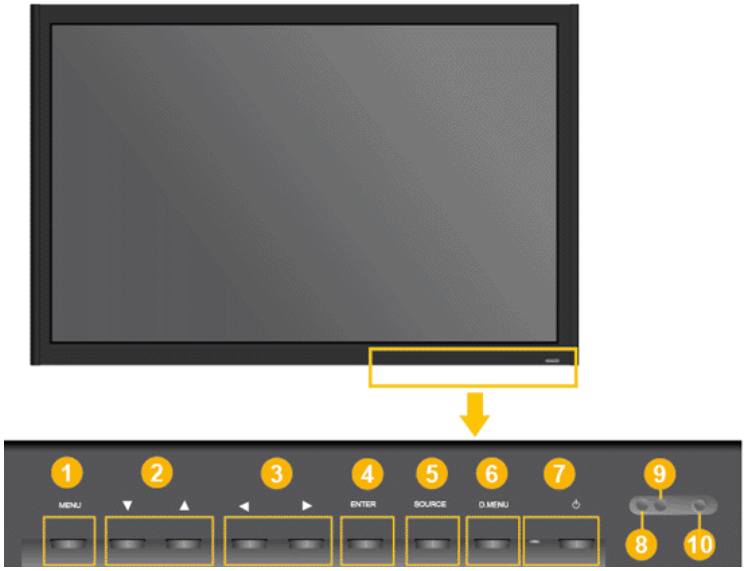
## Your LCD Display

### Front




1. *MENU button [MENU]*

   Opens the on-screen menu and exits from the menu. Also use to exit the OSD menu or return to the previous menu.

2. *Navigate buttons (Up-Down buttons)*

   Moves from one menu item to another vertically or adjusts selected menu values.

3. *Adjust buttons (Left-Right buttons) / Volume buttons*

   Moves from one menu item to another horizontally or adjusts selected menu values. When OSD is not on the screen, push the button to adjust volume.

4. *ENTER button [ENTER]*

   Activates a highlighted menu item.

5. *SOURCE button [SOURCE]*

   Switches from PC mode to Video mode. Changing the source is only allowed for external devices that are connected to the LCD Display at the time.

   [**PC**] → [**DVI**] → [**AV**] → [**HDMI**] → [**MagicInfo**] → [**TV**] → [**BNC**]→ [**Component**]

   **Note**

   - The **TV** menu is available when a TV tuner box is installed.
   - The MagicInfo menu is available when a network box is installed in the MPn or MP model.

6. *D.MENU*

   Opens the on-screen D.MENU.

   **Note**

   - This is available when a TV tuner box is installed.

7. *Power button [⏻]*

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Use this button for turning the LCD Display on and off.

8 *Power indicator*

Shows PowerSaver mode by blinking green

**Note**

See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your LCD Display OFF when it is not needed or when leaving it unattended for long periods.

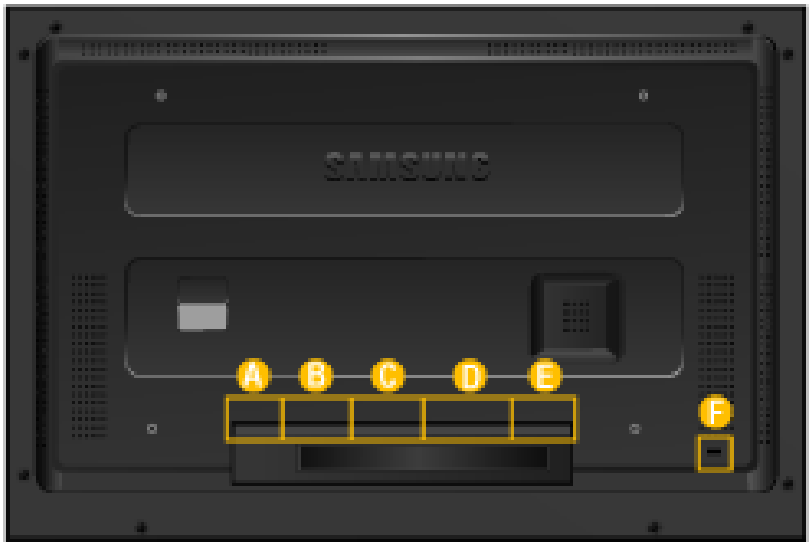
9 *Remote Control Sensor*

Aim the remote control towards this spot on the LCD Display.

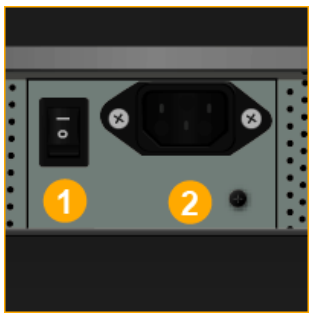
## Rear

**Note**

For detailed information concerning cable connections, refer to Connecting Cables under Setup. The LCD Display 's configuration at the back may vary slightly depending on the LCD Display model.




A




1 *POWER S/W ON [ | ] / OFF [O]*

Switches the LCD Display On/Off.

2 *POWER IN*

The power cord plugs into the LCD Display and the wall plug.

B

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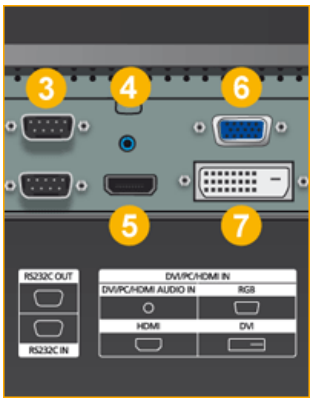


3 *RS232C OUT/IN (RS232C Serial PORT)*

MDC(Multiple Display Control) Program Port

4 *DVI / PC / HDMI IN [DVI/PC/HDMI AUDIO IN] (PC/DVI/HDMI Audio Connection Terminal (Input))*

5 *DVI / PC / HDMI IN [HDMI]*

Connect the HDMI terminal at the back of your LCD Display to the HDMI terminal of your digital output device using a HDMI cable.

6 *DVI / PC / HDMI IN [RGB](PC Video Connection Terminal)*

Using a D-Sub Cable (15 pin D-Sub) - PC mode (Analog PC)

7 *DVI / PC / HDMI IN [DVI] (PC Video Connection Terminal)*

Using a DVI Cable (DVI-D to DVI-D) - DVI mode (Digital PC)

C

8 *DC OUT [5V/1.5A]*

Connect this to the **POWER** connector of a TV tuner box or network box.

9 *AV IN [VIDEO] (VIDEO Connection Terminal)*

Connect the [ VIDEO ] terminal of your monitor to the video output terminal of the external device using a VIDEO cable.

10 *AV AUDIO IN [L-AUDIO-R](LCD Display Audio Connection Terminal (Input))*

11 *AV AUDIO OUT [L-AUDIO-R] (LCD Display Audio Connection Terminal (Output))*

D

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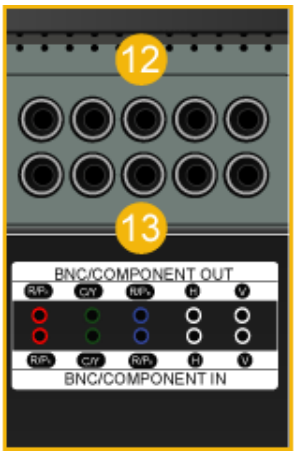



12 *BNC/COMPONENT OUT[R/PR, G/Y, B/PB, H, V]*

(BNC/Component Connection Terminal (Output))

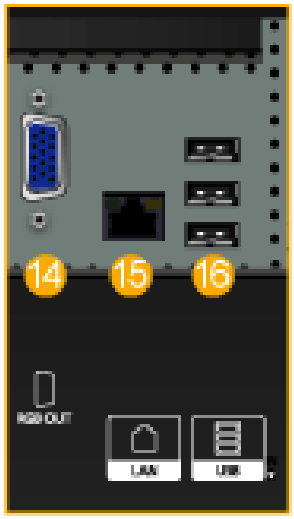
BNC (Analog PC) Connection: connecting the R, G, B, H, V ports.

Component Connection: connecting the PR, Y, PB ports.

13 *BNC/COMPONENT IN[R/PR, G/Y, B/PB, H, V]*

(BNC/Component Connection Terminal (Input))

E




14 *RGB OUT*

(Applicable to the MPn model only)

15 *LAN (LAN Connection Terminal)*

(Applicable to the MPn model only)

16 *USB(USB Connection Terminal)*

Keyboard / Mouse, Mass Storage Device Compatible.

(Applicable to the MPn model only)

**Note**

The number of LCD Displays that can be connected to loopout may differ depending on the cables, signal source etc. With cables where there is no degradation or signal source, up to ten LCD Displays can be connected.

F

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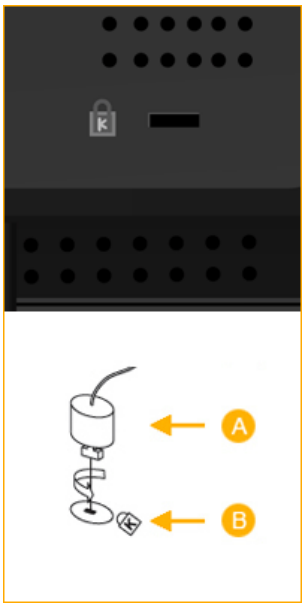


*Kensington Lock*

The Kensington Lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for proper use. The locking device has to be purchased separately.

**Note**

The location of the Kensington Lock may be different depending on its model.

### Using the Anti-Theft Kensington Lock

1. Insert the locking device into the Kensington slot on the Monitor (B) and turn it in the locking direction (A).
2. Connect the Kensington Lock cable.
3. Fix the Kensington Lock to a desk or a heavy stationary object.

**Note**

See Connecting Cables for further information regarding cable connections.

## Remote Control

**Note**

The performance of the remote control may be affected by a TV or other electronic device operating near the LCD Display , causing a malfunction due to interference with the frequency.

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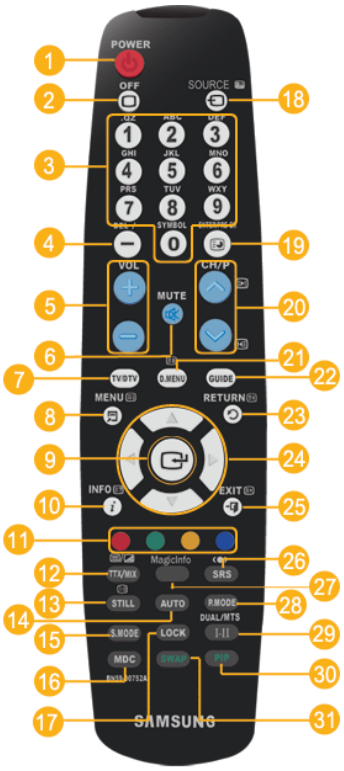


1. POWER
2. OFF
3. Number Buttons
4. DEL -/-- button
5. + VOL -
6. MUTE
7. TV/DTV
8. MENU
9. 
10. INFO
11. COLOR BUTTONS
12. TTX/MIX
13. STILL
14. AUTO
15. S.MODE
16. MDC
17. LOCK
18. SOURCE
19. ENTER/PRE-CH
20. CH/P
21. D.MENU
22. GUIDE
23. RETURN
24. Up-Down Left-Right buttons
25. EXIT
26. SRS
27. MagicInfo
28. P.MODE
29. DUAL/MTS
30. *PIP*
31. *SWAP*

| | |
|---|---|
| 1. POWER | Turns the product On. |
| 2. Off | Turns the product Off. |
| 3. Number Buttons | Press to change the channel. |

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| | |
|---|---|
| 4. DEL -/-- button | The "-" button operates only for DTV. It is used to select MMS (multi-channel) for a DTV. |
| 5. + VOL - | Adjusts the audio volume. |
| 6. MUTE | Pauses (mutes) the audio output temporarily. This is displayed on the lower left corner of the screen. The audio resumes if MUTE or - VOL + is pressed in the Mute mode. |
| 7. TV/DTV | Selects the TV and DTV mode directly. |
| 8. MENU | Opens the on-screen menu and exits from the menu or closes the adjustment menu. |
| 9. | Activates a highlighted menu item. |
| 10. INFO | Current picture information is displayed on the upper left corner of the screen. |
| 11.COLOR BUTTONS | Press to add or delete channels and to store channels to the favorite channel list in the “Channel List” menu. |
| 12. TTX/MIX | TV channels provide written information services via teletext.<br>- Teletext Buttons<br>8, 10, 13, 18, 19, 20, 21, 23, 25,<br>For more information > TTX / MIX |
| 13.STILL | Press the button once to freeze the screen. Press it again to un-freeze. |
| 14.AUTO | Adjusts the screen display automatically in **PC** mode. By changing the resolution in the control panel, auto function is performed. |
| 15. S.MODE | When pressing this button, the current mode is displayed at the bottom centre of the screen. The LCD Display has a built-in high fidelity stereo amplifier. Then press the button again to circle through available preconfigured modes. ( **Standard** → **Music** → **Movie** → **Speech** → **Custom** ) |
| 16.MDC | MDC Quick Launch Button. |
| 17.LOCK | Activates or deactivates all function keys on both the remote control and the LCD Display except for the Power and LOCK buttons. |
| 18. SOURCE | Press the button to change the input signal SOURCE.<br>Changing the SOURCE is only allowed for external devices that are connected to the monitor at the time. |
| 19. ENTER/PRE-CH | This button is used to return to the immediately previous channel. |
| 20.∨CH/P∧ | In **TV** mode, selects TV channels. |
| 21.D.MENU | DTV menu display |
| 22.GUIDE | Electronic Program Guide (EPG) display. |
| 23. RETURN | Returns to the previous menu. |

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24. Up-Down Left-Right buttons — Moves from one menu item to another horizontally, vertically or adjusts selected menu values.

25. EXIT — Exits from the menu screen.

26. SRS — Selects SRS TruSurround XT mode.

27.MagicInfo — MagicInfo Quick Launch Button.

28. P.MODE — When you press this button, current picture mode is displayed on the lower center of the screen.

***AV / HDMI / TV :*** *P.MODE*

The LCD Display has four automatic picture settings that are preset at the factory. Then push button again to circle through available preconfigured modes. ( **Dynamic** → **Standard** → **Movie** → **Custom** )

***PC / DVI / MagicInfo:*** *M/B* ***(MagicBright)***

**MagicBright** is a feature providing the optimum viewing environment depending on the contents of the image you are watching. Then push button again to circle through available preconfigured modes. (**Entertain** → **Internet** → **Text** → **Custom** )

29. DUAL/MTS — *DUAL-*

STEREO/MONO, DUAL I / DUAL II and MONO/NICAM MONO/NICAM STEREO can be operated depending on the broadcasting type by using the DUAL button on the remote control while watching TV.

*MTS-*

You can select MTS (Multichannel Television Stereo) mode.

| | Audio Type | MTS/S_Mode | Default |
|---|---|---|---|
| FM Stereo | Mono | Mono | Manual Change |
| | Stereo | Mono ↔ Stereo | |
| | SAP | Mono ↔ SAP | Mono |

30. *PIP* — Every time you press the button, a PIP screen appears.

- This fuction does not work for this LCD Display.

31.*SWAP* — Swaps the contents of the PIP and main image. The image in the PIP window will appear on the main screen, and the main screen image will appear in the PIP window.

- This fuction does not work for this LCD Display.

## Mechanical Layout(400MP(N))

## Mechanical Layout

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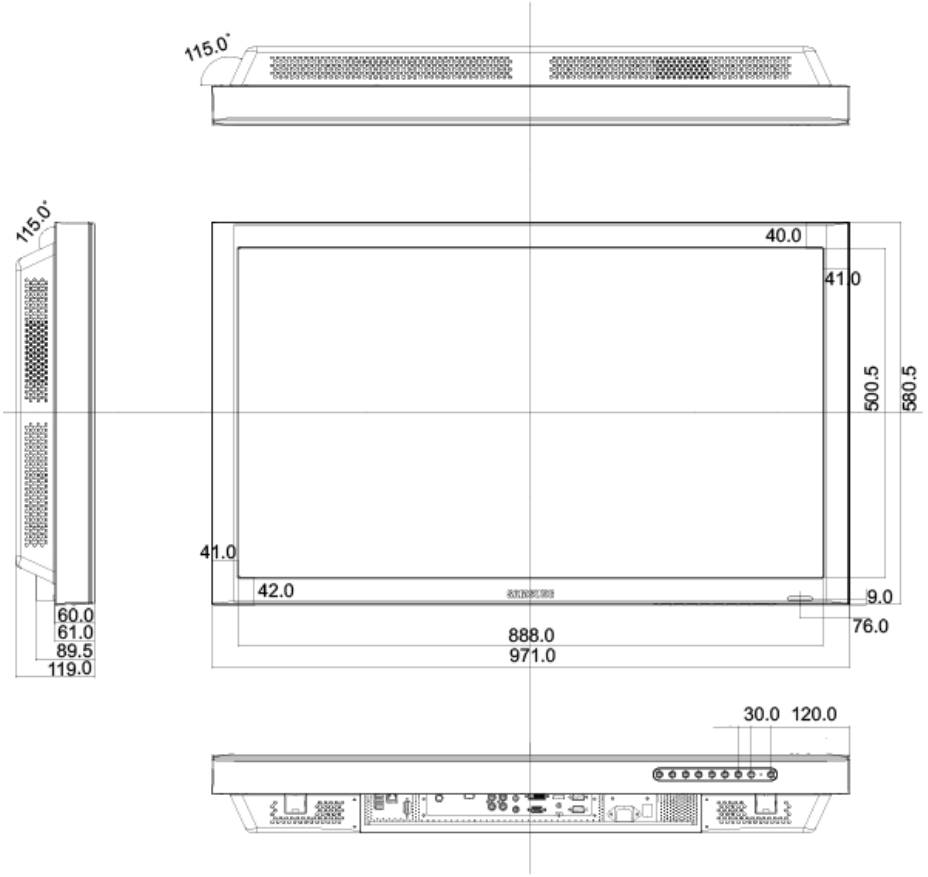


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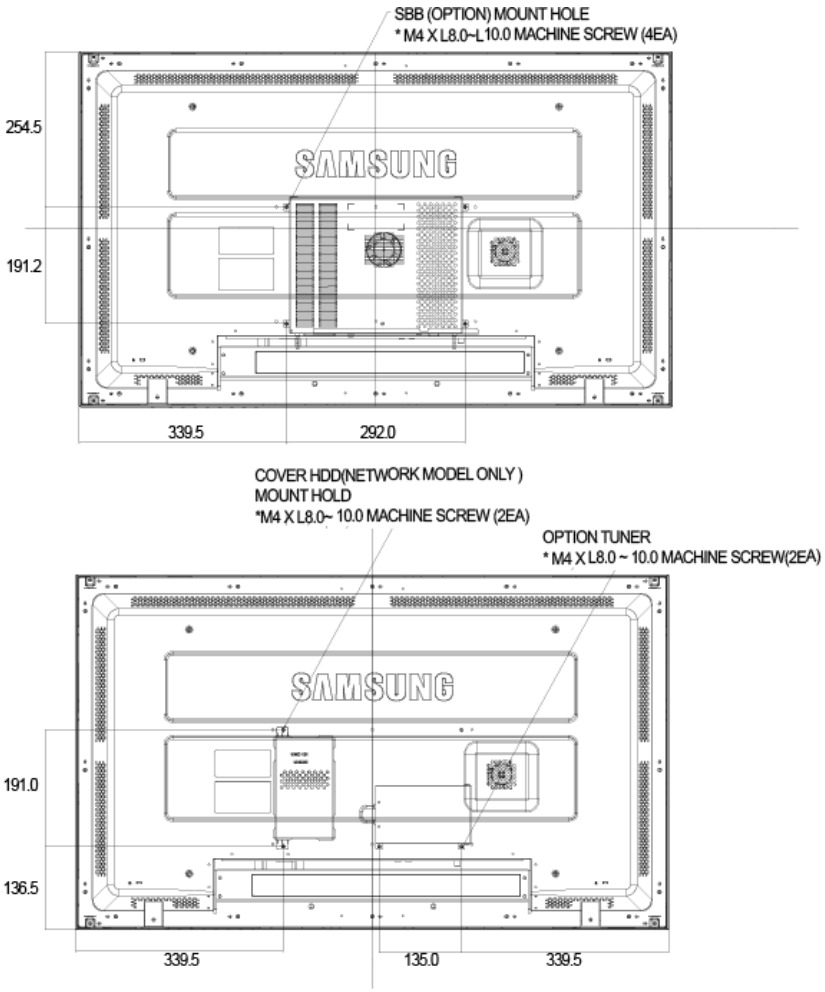
## LCD Display Head

## NETWORK MODEL SIZE




## Installation VESA Bracket

- When installing VESA, make sure to comply with the international VESA standards.
- Purchasing VESA Bracket and Installation Information : Please contact your nearest SAMSUNG Distributor to place an order. After your order is placed, installation professionals will visit you and install the bracket.
- At least 2 persons are needed in order to move the LCD Display.
- SAMSUNG is not responsible for any product damage or any injury caused by installation at customer's discretion.

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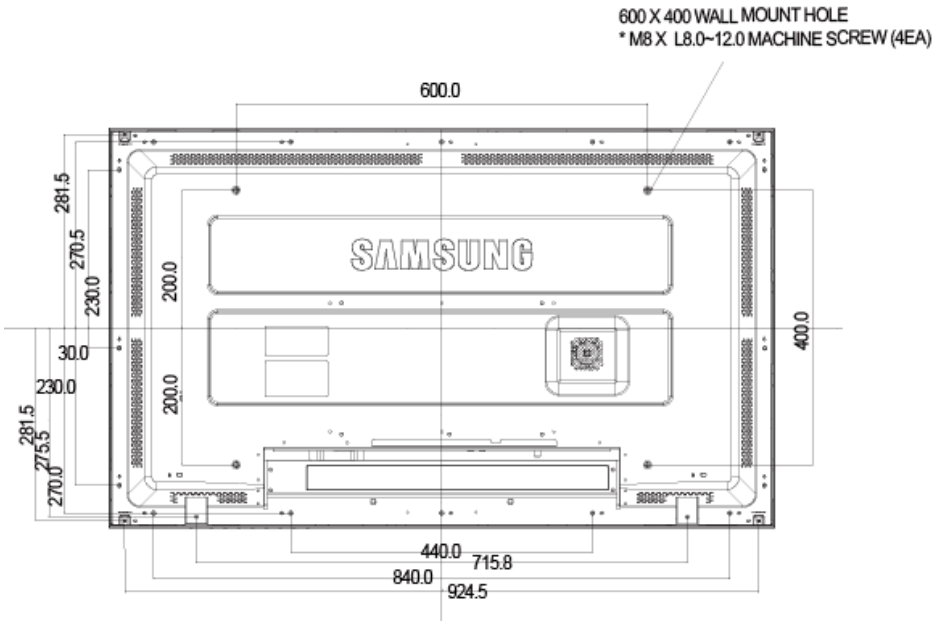
## Dimensions




**Notice**

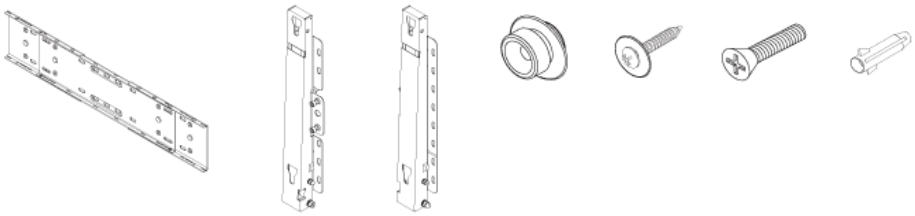
For securing the bracket on a wall, use only machine screws of 6 mm diameter and 8 to 12 mm length.

## Wall Bracket Installation

- Contact a technician for installing the wall bracket.
- SAMSUNG Electronics is not responsible for any damages to the product or harm to customers when the installation is done by the customer.
- This product is for installing on cement walls. The product may not stay in place when installed on plaster or wood.

## Components

Only use the components and accessories shipped with the product.



| | | | | | | |
|---|---|---|---|---|---|---|
| Wall Bracket(1) | Hinge(Left 1, Right 1) | | Plastic Hanger (4) | Screw (A)(11) | Screw(B) (4) | Anchor (11) |

## Wall Bracket Assembly

**Note**

There are two hinges(left and right). Use the correct one.

1. Insert and tighten the Captive Screw in the direction of the arrow.

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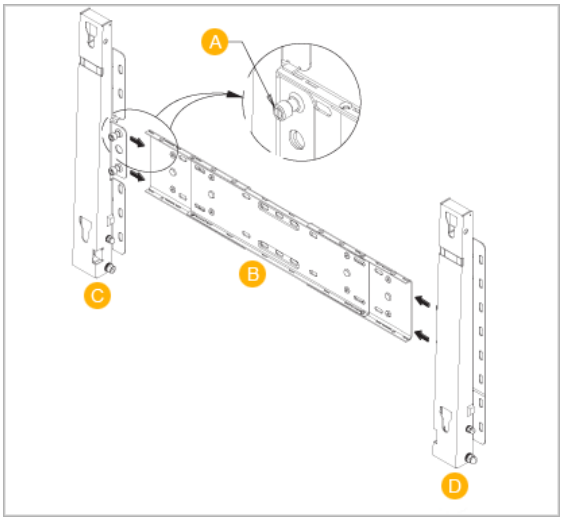
When done, mount the wall bracket on the wall.




There are two hinges(left and right). Use the correct one.

A - Captive Screw

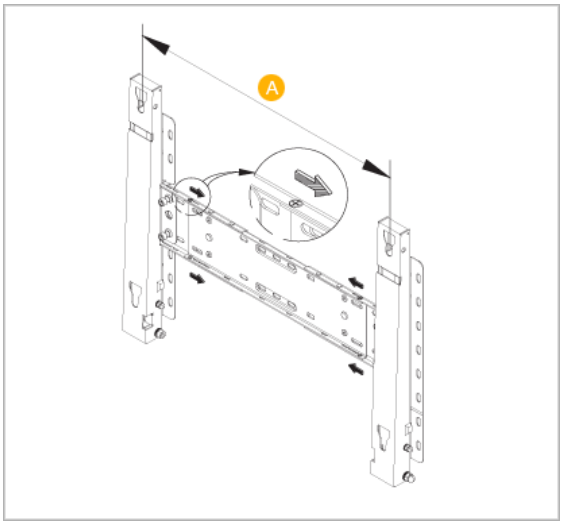
B - Wall Bracket

C - Hinge (Left)

D - Hinge (Right)

2. Before drilling into the wall, check if the length between the two locking holes at the back of the product is correct.

   If the length is too short or long, loosen all or some of the 4screws on the wall bracket to adjust the length.




A - Length between the two locking holes

3. Check the installation diagram and mark the drill points on the wall. Use the 5.0 mm bit to drill holes deeper than 35 mm. Fix each anchor in the corresponding hole. Match each of the brackets and hinge holes to the corresponding anchor holes and insert and tighten the 11 screws A.

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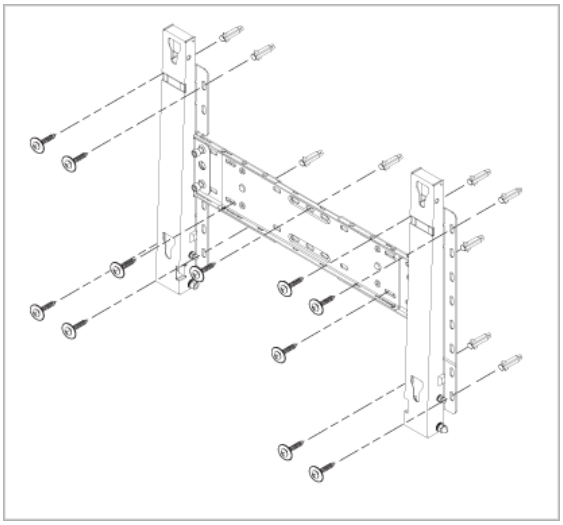
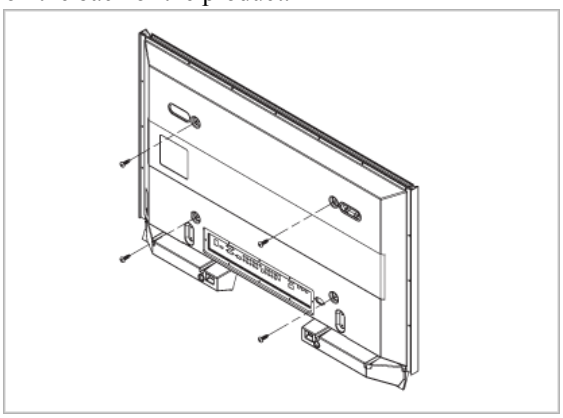


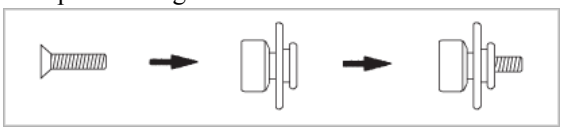
## To mount the product on the wall bracket

The shape of the product may vary depending on the model. (The assemblies of the plastic hanger and the screw are the same)

1. Remove the 4 screws on the back of the product.



2. Insert the screw B into the plastic hanger.



**Notice**

- Mount the product on the wall bracket and make sure it is properly fixed to the left and right plastic hangers.
- Be careful when installing the product on the bracket as fingers can be caught in the holes.
- Make sure the wall bracket is securely fixed to the wall, or the product may not stay in place after installation.

3. Tighten the 4 screws in step 2 (plastic hanger + screw B)to the rear holes of the product.

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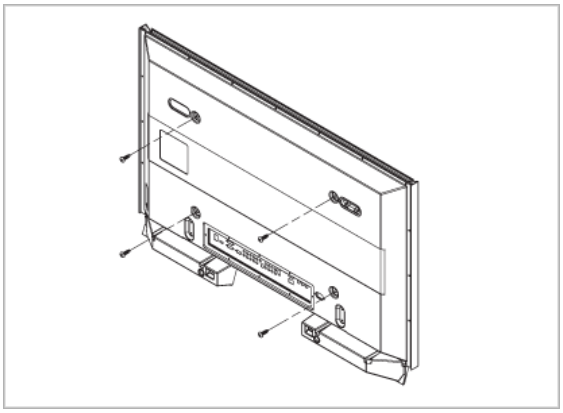
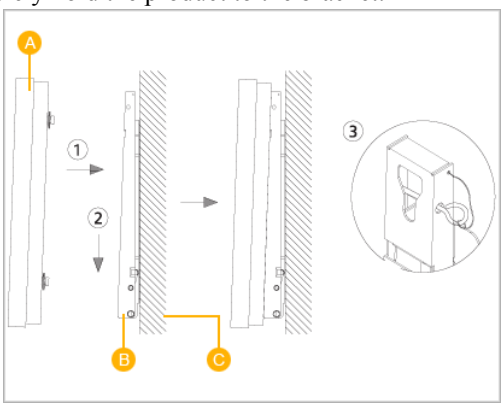


4. Remove safety pin (3) and insert the 4 product holders into the corresponding bracket holes (1). Then place the product(2) so that it is firmly fixed to the bracket. Make sure to re-insert and tighten the safety pin (3) to securely hold the product to the bracket.



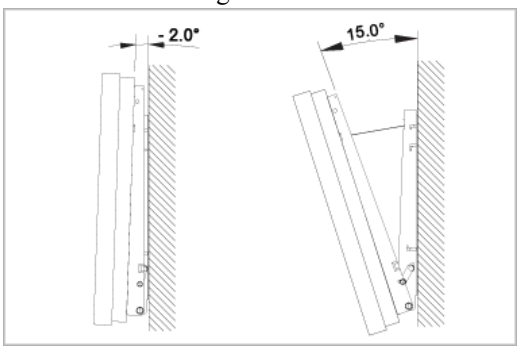

A - LCD Display

B - Wall Bracket

C - Wall

## Wall Bracket Angle Adjustment

Adjust the bracket angle to -2° before installing it on the wall.




1. Fix the product to the wall bracket.

2. Hold the product at the top in the center and pull it forward (direction of the arrow) to adjust the angle.

**Note**

You can adjust the bracket angle between -2° and 15°.

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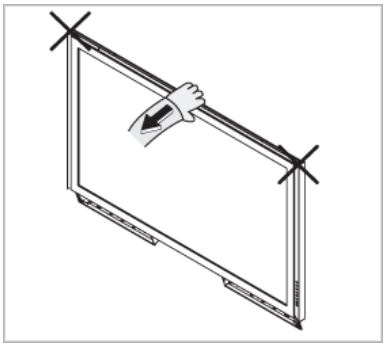
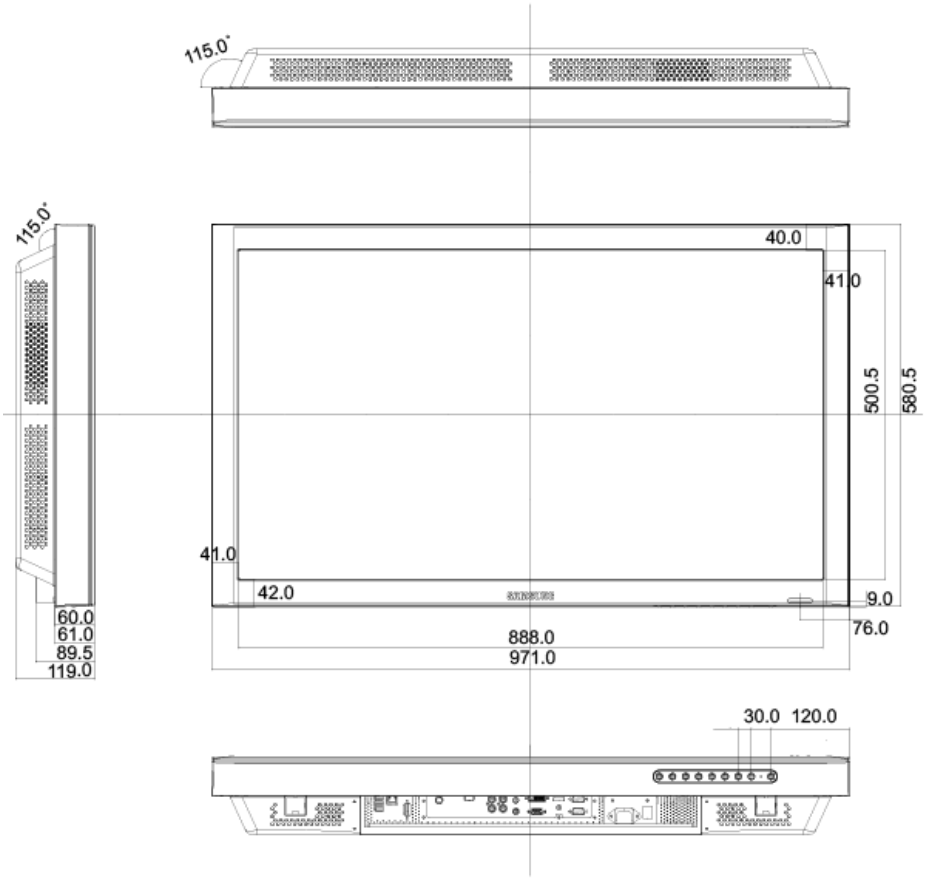


Make sure to use the top center, and not the leftor the right side of the product to adjust the angle.

## Mechanical Layout(460MP(N))

## Mechanical Layout

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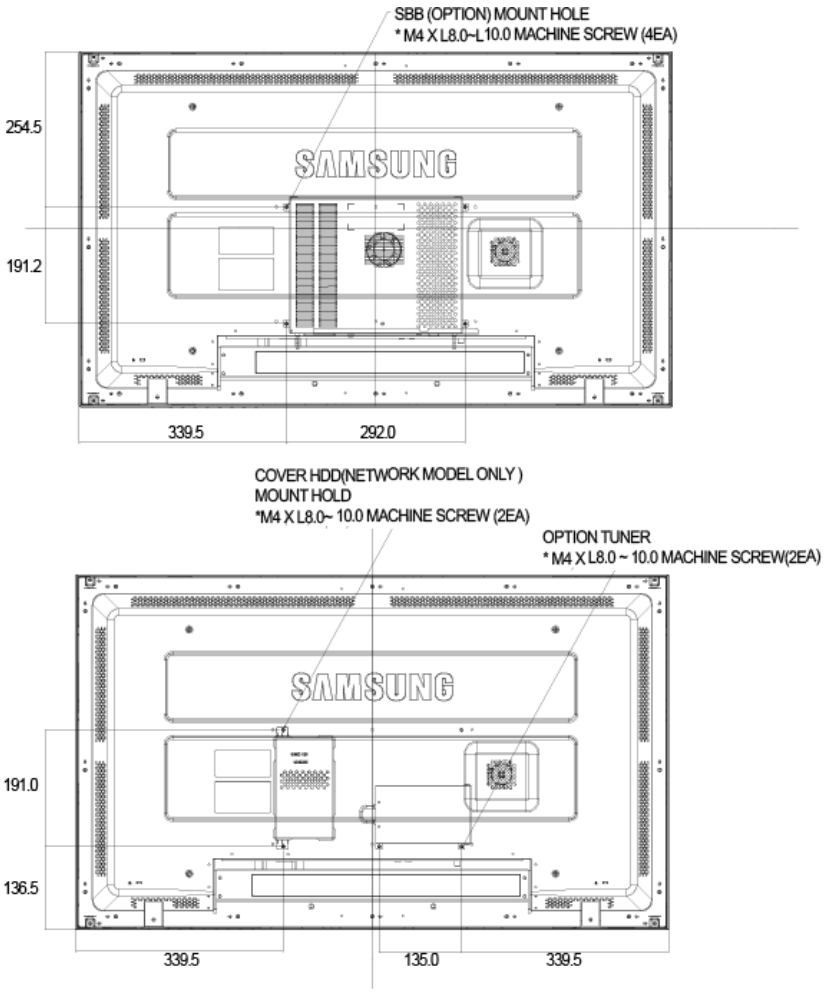
## LCD Display Head

## NETWORK MODEL SIZE




## Installation VESA Bracket

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- Purchasing VESA Bracket and Installation Information : Please contact your nearest SAMSUNG Distributor to place an order. After your order is placed, installation professionals will visit you and install the bracket.
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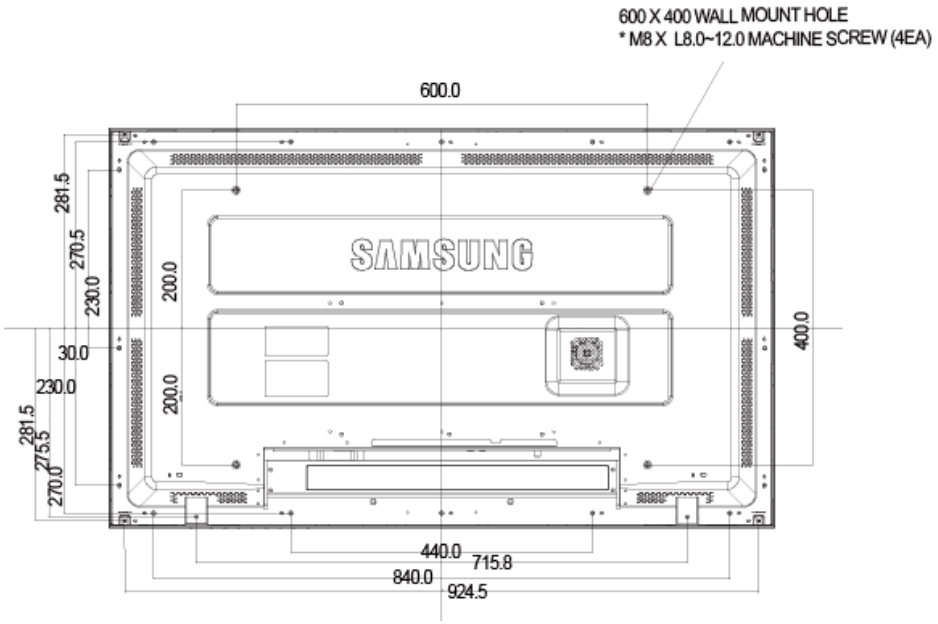
## Dimensions




**Notice**

For securing the bracket on a wall, use only machine screws of 6 mm diameter and 8 to 12 mm length.

## Wall Bracket Installation

- Contact a technician for installing the wall bracket.
- SAMSUNG Electronics is not responsible for any damages to the product or harm to customers when the installation is done by the customer.
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## Components

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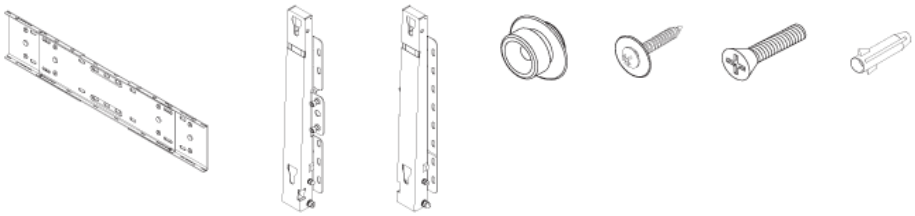

| | | | | | | |
|---|---|---|---|---|---|---|
| Wall Bracket(1) | Hinge(Left 1, Right 1) | | Plastic Hanger (4) | Screw (A)(11) | Screw(B) (4) | Anchor (11) |

## Wall Bracket Assembly

**Note**

There are two hinges(left and right). Use the correct one.

1. Insert and tighten the Captive Screw in the direction of the arrow.

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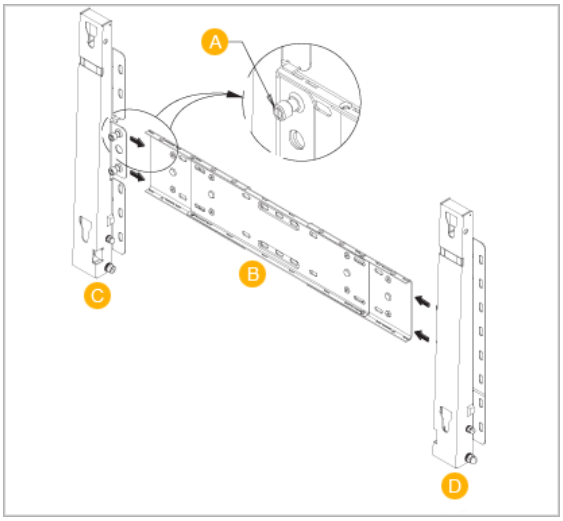
When done, mount the wall bracket on the wall.




There are two hinges(left and right). Use the correct one.

A - Captive Screw

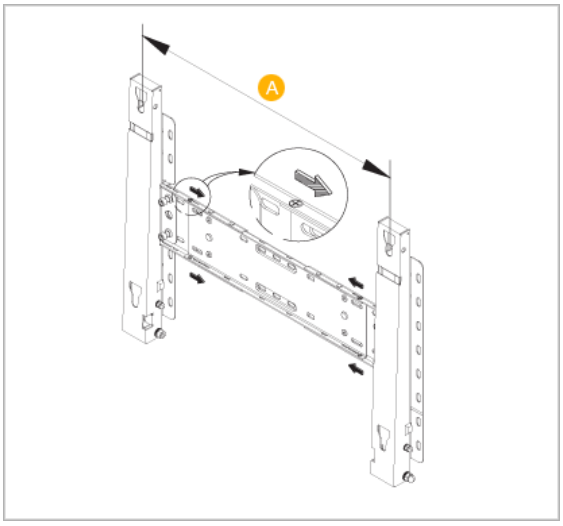
B - Wall Bracket

C - Hinge (Left)

D - Hinge (Right)

2. Before drilling into the wall, check if the length between the two locking holes at the back of the product is correct.

   If the length is too short or long, loosen all or some of the 4screws on the wall bracket to adjust the length.




A - Length between the two locking holes

3. Check the installation diagram and mark the drill points on the wall. Use the 5.0 mm bit to drill holes deeper than 35 mm. Fix each anchor in the corresponding hole. Match each of the brackets and hinge holes to the corresponding anchor holes and insert and tighten the 11 screws A.

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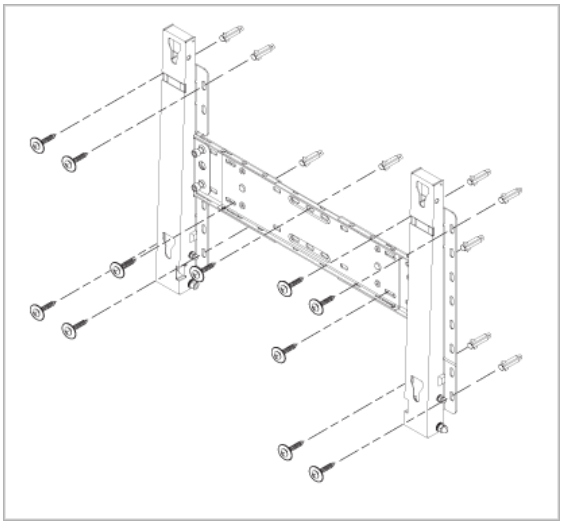
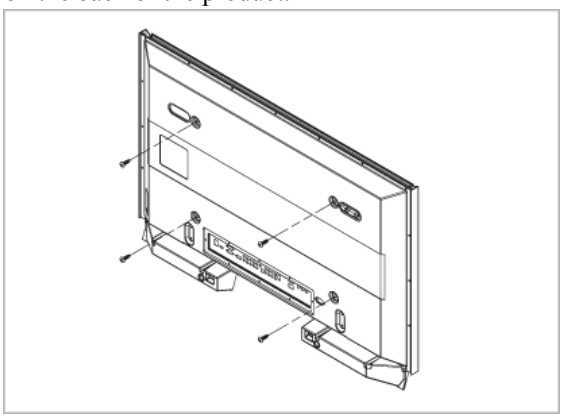


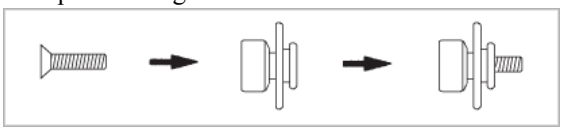
## To mount the product on the wall bracket

The shape of the product may vary depending on the model. (The assemblies of the plastic hanger and the screw are the same)

1. Remove the 4 screws on the back of the product.



2. Insert the screw B into the plastic hanger.



**Notice**

- Mount the product on the wall bracket and make sure it is properly fixed to the left and right plastic hangers.
- Be careful when installing the product on the bracket as fingers can be caught in the holes.
- Make sure the wall bracket is securely fixed to the wall, or the product may not stay in place after installation.

3. Tighten the 4 screws in step 2 (plastic hanger + screw B)to the rear holes of the product.

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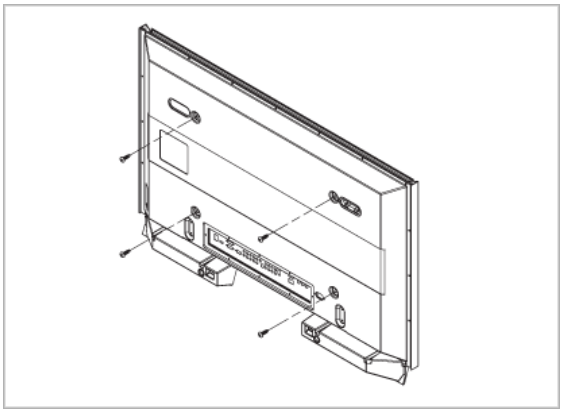
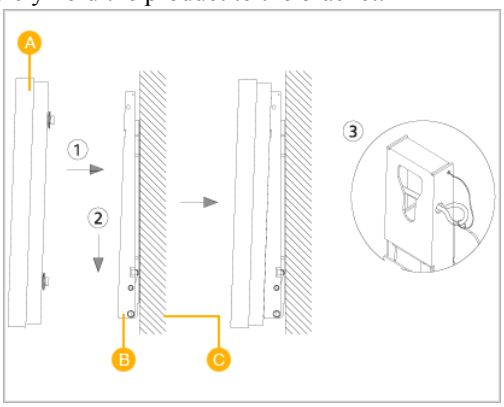


4. Remove safety pin (3) and insert the 4 product holders into the corresponding bracket holes (1). Then place the product(2) so that it is firmly fixed to the bracket. Make sure to re-insert and tighten the safety pin (3) to securely hold the product to the bracket.



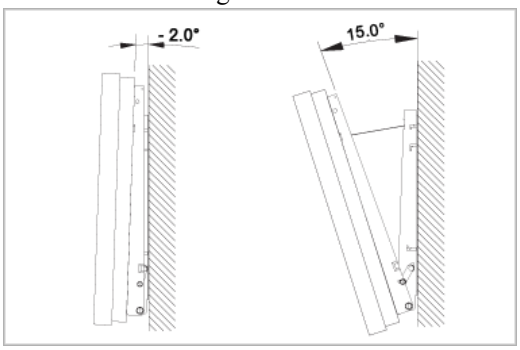

A - LCD Display

B - Wall Bracket

C - Wall

## Wall Bracket Angle Adjustment

Adjust the bracket angle to -2° before installing it on the wall.




1. Fix the product to the wall bracket.

2. Hold the product at the top in the center and pull it forward (direction of the arrow) to adjust the angle.

**Note**

You can adjust the bracket angle between -2° and 15°.

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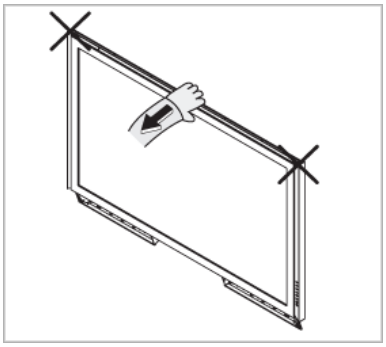

Make sure to use the top center, and not the leftor the right side of the product to adjust the angle.

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# Connections

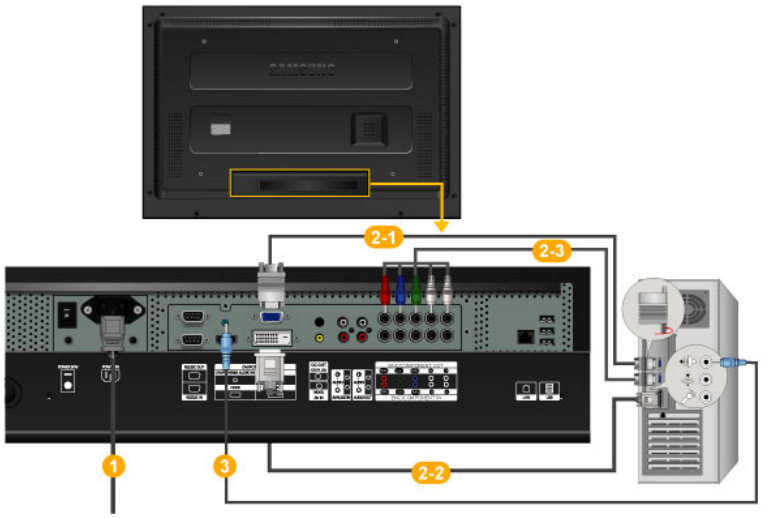
## Connecting a Computer

### Using a Power cord with Earth

- In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.

**Note**

AV input devices such as DVD players, VCR's or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.




1. Connect the power cord for your LCD Display to the power port on the back of the LCD Display. Trun on the power switch.
2. There are 2 ways to connect the D-sub to your LCD Display. Choose one of the following:

   2-1 Using the D-sub (Analog) connector on the video card.

   - Connect the D-sub to the 15-pin, RGB port on the back of your LCD Display and the 15 pin D-sub Port on the computer.

   2-2 Using the DVI (Digital) connector on the video card.

   - Connect the DVI Cable to the DVI port on the back of your LCD Display and the DVI port on the computer.

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2-3 Using the BNC (Analog) connector on the video card.

- Connect the BNC Cable to the BNC/COMPONENT IN - R, G, B, H, V ports on the back of your LCD Display and the 15 pin D-sub Port on the computer.

3 Connect the audio cable for your LCD Display to the audio port on the back of your computer.

**Note**

- Turn on both your computer and the LCD Display.
- The DVI cable is optional.
- Contact a local SAMSUNG Electronics Service Center to buy optional items.

## Connecting to Other devices

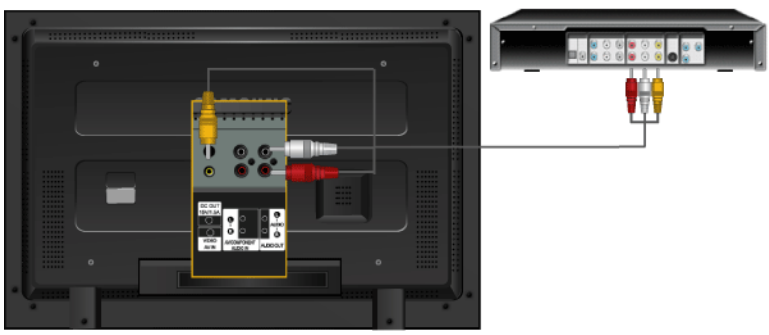
### Using a Power cord with Earth

- In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.

**Note**

AV input devices such as DVD players, VCR's or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.

## Connecting AV Devices



1. Connect the port of the DVD, VCR (DVD / DTV Set-Top Box) to the [R-AUDIO-L] port of the LCD Display.
2. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.

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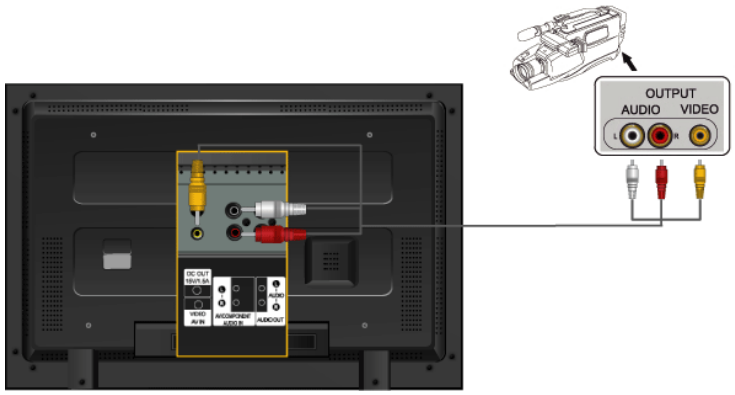
3. Select **AV** using the SOURCE .

**Note**

The LCD Display has AV connection terminals to connect AV input devices like DVDs, VCRs or Camcorders. You may enjoy AV signals as long as the LCD Display is turned on.

## Connecting to a Camcorder

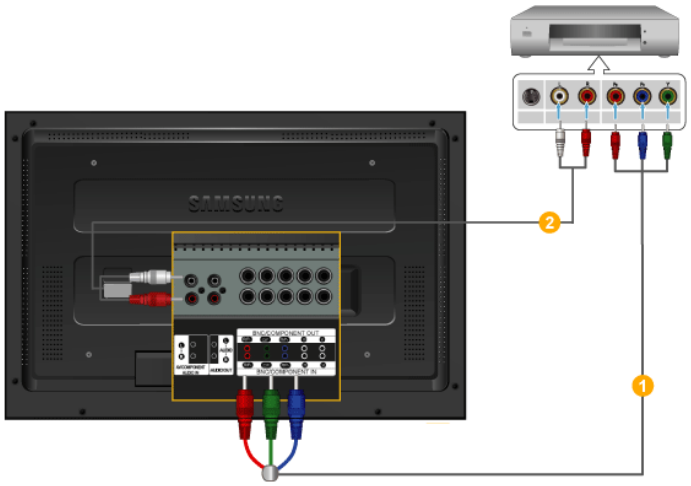



1. Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder. Connect a set of audio cables between the AUDIO OUTPUT jacks on the camcorder and the AV AUDIO IN [L-AUDIO-R] on the LCD Display .
2. Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the AV IN [VIDEO] on the LCD Display .
3. Select **AV** for the Camcorder connection using the Source button on the front of the LCD Display or on the remote control.
4. Then, start the Camcorders with a tape inserted.

**Note**

The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

## Connecting a DVD Player




1. Connect a set of audio cables between the AV AUDIO IN [L-AUDIO-R] on the LCD Display and the AUDIO OUT jacks on the DVD player.

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2. Connect a Component cable between the BNC/COMPONENT IN - $P_R$, Y, $P_B$ port on the LCD Display and the $P_R$, Y, $P_B$ jacks on the DVD player.

**Note**

- Select Component for the connection to a DVD player using the SOURCE button on the front of the LCD Display or on the remote control.
- Then, start the DVD Player with a DVD disc inserted.

**Note**

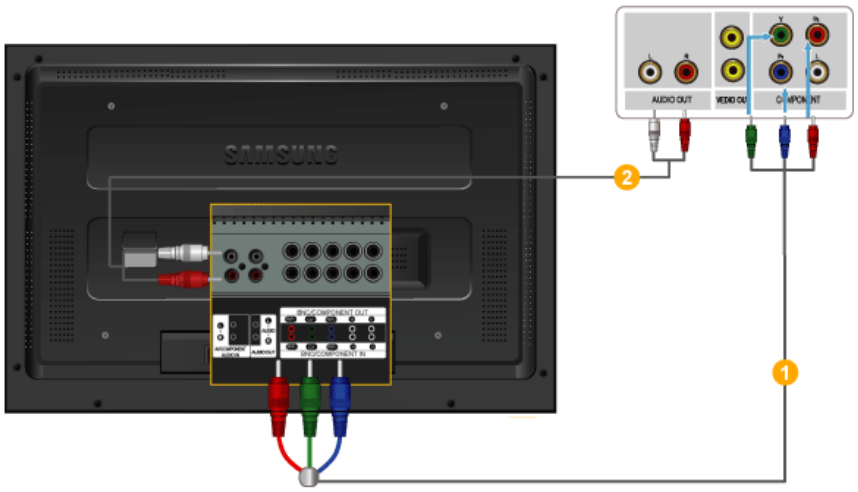
- A component cable is optional.

  For an explanation of Component video, consult your DVD manual.

## Connecting a DTV Set Top Box

**Note**

- The connections for a typical Set Top Box are shown below.




1. Connect a Component cable between the BNC / COMPONENT IN - $P_R$, Y, $P_B$ port on the LCD Display and the $P_R$, Y, $P_B$ jacks on the Set Top Box.
2. Connect a set of audio cables between the AV AUDIO IN [L-AUDIO-R] on the LCD Display and the AUDIO OUT jacks on the Set Top Box.

**Note**

- Select Component for the connection to a DTV Set Top Box using the SOURCE button on the front of the LCD Display or on the remote control.

**Note**

- For an explanation of Component video, see your Set Top Box owner's manual.

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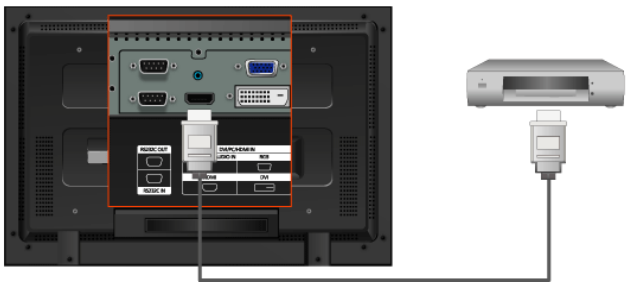
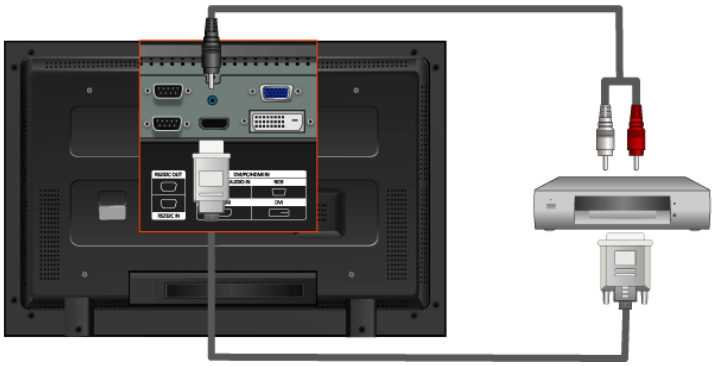
## Connecting Using a HDMI Cable



**Note**

- Input devices such as digital DVD are connected to the HDMI terminal of the LCD Display using the HDMI cable.
- You cannot connect a PC to the HDMI terminal.

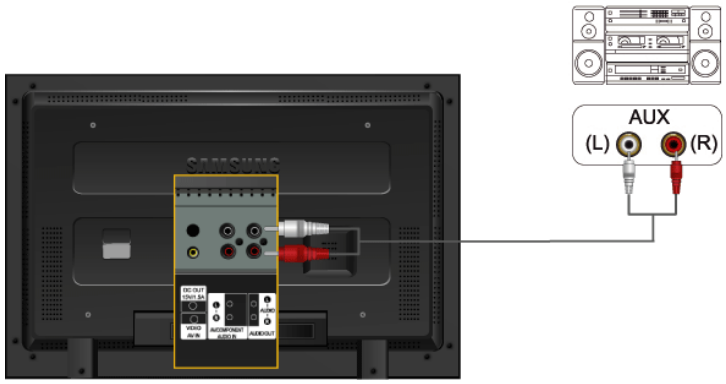
## Connecting Using a DVI to HDMI Cable



**Note**

- Connect the DVI output terminal of a digital output device to the HDMI terminal of the LCD Display using a DVI to HDMI cable.
- Connect the red and white jacks of an RCA to stereo (for PC) cable to the same colored audio output terminals of the digital output device, and connect the opposite jack to the DVI / PC / HDMI AUDIO IN terminal of the LCD Display.

## Connecting to an Audio System




**Note**

- Connect a set of audio cables between the AUX L, R jacks on the AUDIO SYSTEM and AUDIO OUT [L-AUDIO-R] on LCD Display.

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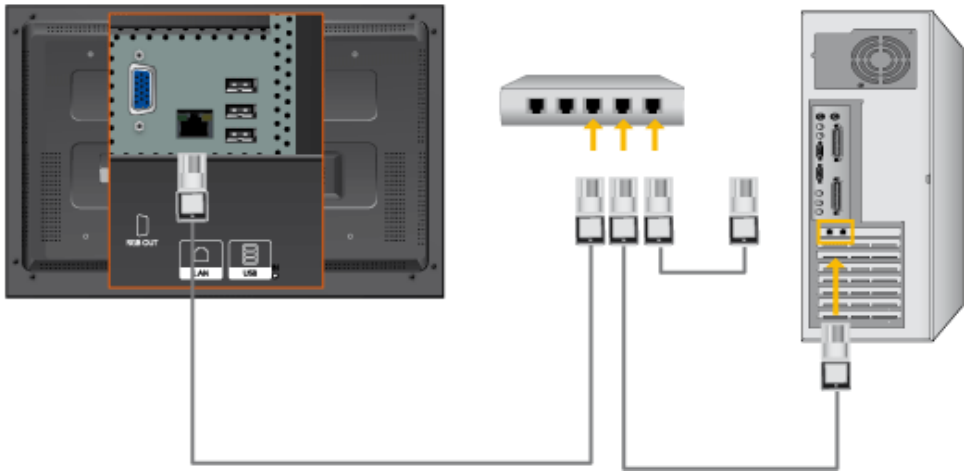
## Connecting a LAN Cable

### Using a Power cord with Earth

- In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.

**Note**

AV input devices such as DVD players, VCR's or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.



**Note**

Connect the LAN cable.

(Applicable to the MPn model only)

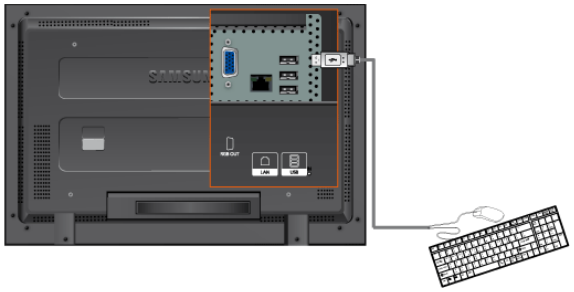
## Connecting a USB device

### Using a Power cord with Earth

- In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.

**Note**

AV input devices such as DVD players, VCR's or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.



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**Note**

You can connect USB devices such as a mouse or keyboard.

(Applicable to the MPn model only)

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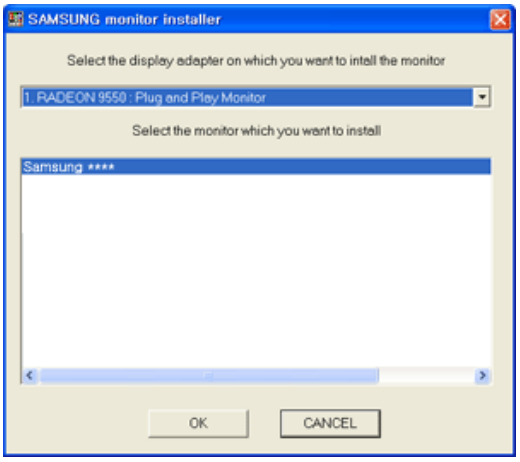
# Using the Software

## Monitor Driver

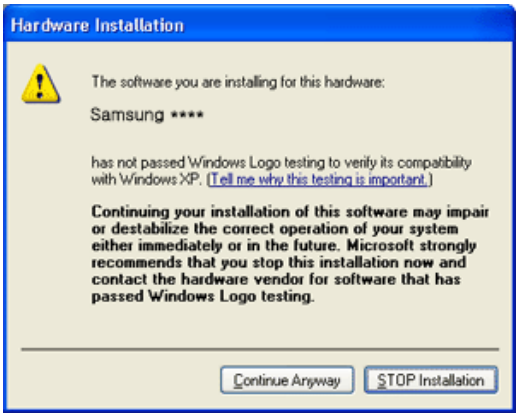
> **Note**
>
> When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.
>
> Prepare a blank disk and download the driver program file at the Internet web site shown here.
> **Internet web site :**
>
> http://www.samsung.com/ (Worldwide)

## Installing the Monitor Driver (Automatic)

1. Insert CD into the CD-ROM drive.
2. Click "Windows".
3. Choose your monitor model in the model list, then click the "OK" button.


SAMSUNG monitor installer
Select the display adapter on which you want to intall the monitor
1. RADEON 9550 : Plug and Play Monitor
Select the monitor which you want to install
Samsung ****
OK
CANCEL

4. If you can see following message window, then click the "Continue Anyway" button. Then click "OK" button (Microsoft® Windows® XP/2000 Operating System).


Hardware Installation
The software you are installing for this hardware:
Samsung ****
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

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**Note**

This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage.

http://www.samsung.com/

## Installing the Monitor Driver (Manual)

Microsoft® Windows Vista™, Operating System

1. Insert your Manual CD into your CD-ROM drive.
2. Click (Start) and "Control Panel". Then, double-click on "Appearance and Personalization".

3. Click "Personalization" and then "Display Settings".

4. Click "Advanced Settings...".

5. Click "Properties" in the "Monitor" tab. If the "Properties" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is.

   If the message "Windows needs..." is displayed, as shown in the figure below, click "Continue".

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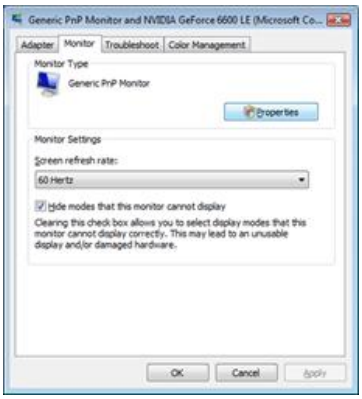
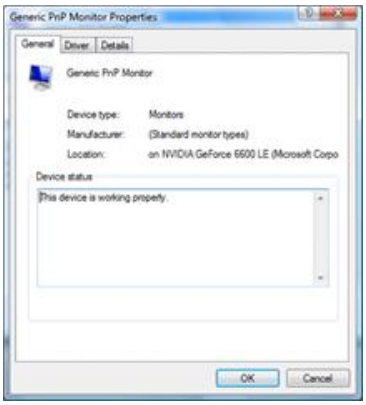

Generic PnP Monitor and NVIDIA GeForce 6600 LE (Microsoft Co...
Adapter
Monitor
Troubleshoot
Color Management
Monitor Type
Generic PnP Monitor
Properties
Monitor Settings
Screen refresh rate:
60 Hertz
Hide modes that this monitor cannot display
Clearing this check box allows you to select display modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.
OK
Cancel
Apply

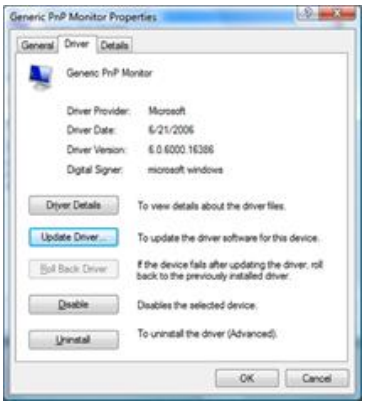
**Note**

This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

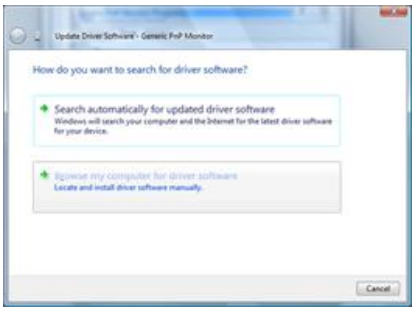
The certified driver will be posted on Samsung Monitor homepage.

6. Click "Update Driver..." in the "Driver" tab.




7. Check the "Browse my computer for driver software" checkbox and click "Let me pick from a list of device drivers on my computer".


How do you want to search for driver software?
Search automatically for updated driver software
Browse my computer for driver software
Locate and install driver software manually.
Cancel

Browse for driver software on your computer
Browse...
Include subfolders
Let me pick from a list of device drivers on my computer
Next
Cancel

8. Click "Have Disk..." and select the folder (for example, D:\Drive) where the driver setup file is located, and click "OK".

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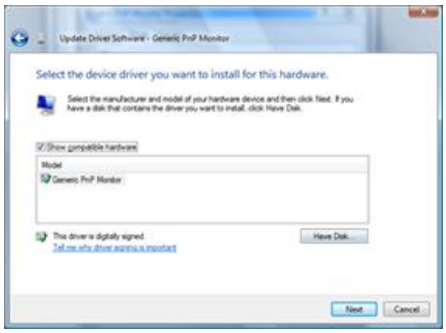
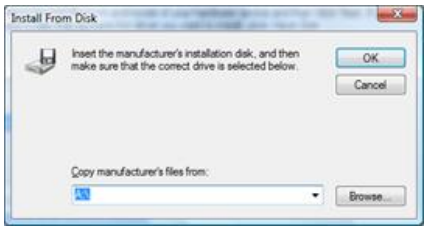
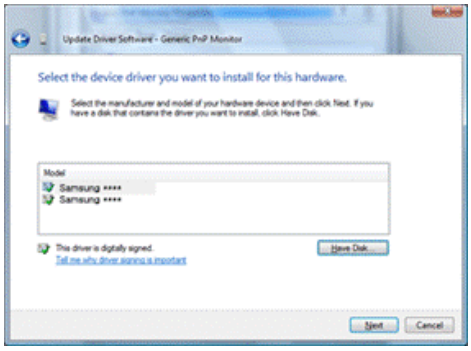
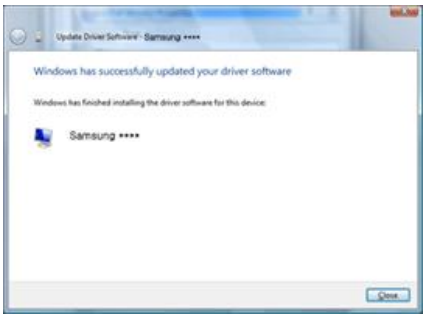


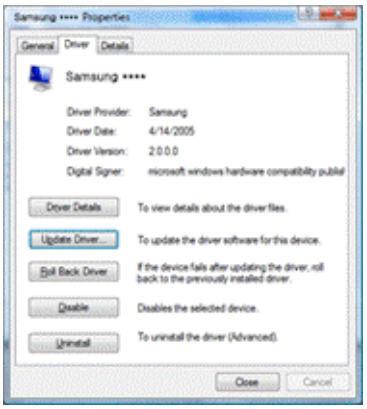


Install From Disk
Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.
OK
Cancel
Copy manufacturer's files from:
Browse...

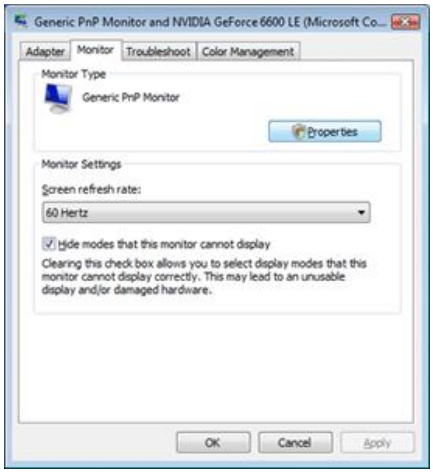
9. Select the model that matches your monitor from the list of monitor models on the screen, and click "Next".

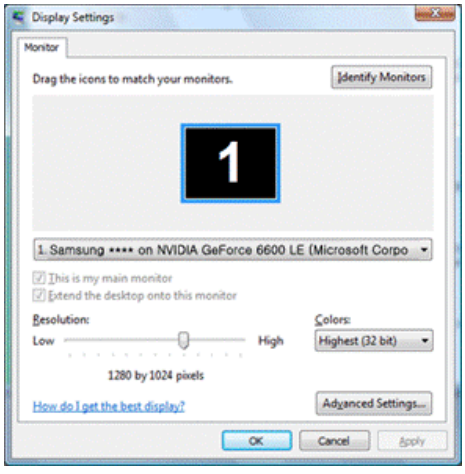



10. Click "Close" → "Close" → "OK" → "OK" on the following screens displayed in sequence.





Generic PnP Monitor and NVIDIA GeForce 6600 LE (Microsoft Co...
Adapter
Monitor
Troubleshoot
Color Management
Monitor Type
Generic PnP Monitor
Properties
Monitor Settings
Screen refresh rate:
60 Hertz
Hide modes that this monitor cannot display
Clearing this check box allows you to select display modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.
OK
Cancel
Apply




Microsoft® Windows® XP Operating System

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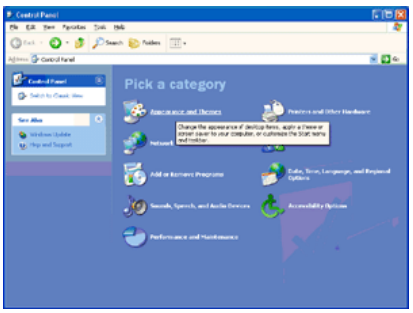
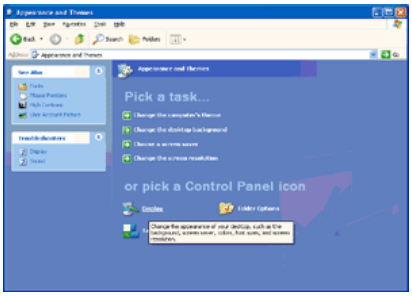
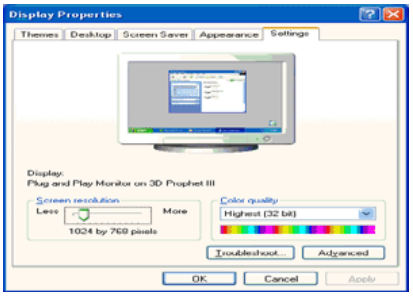
1. Insert CD into the CD-ROM drive.
2. Click "Start" → "Control Panel" then click the "Appearance and Themes" icon.

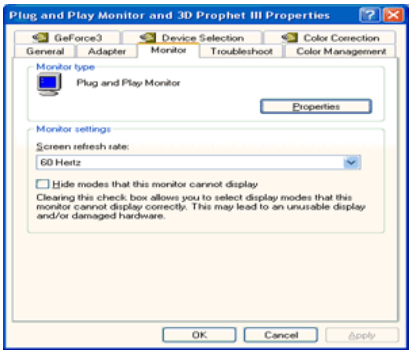


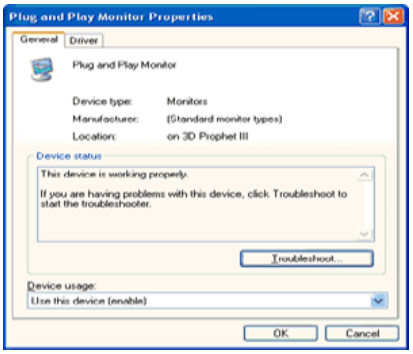

3. Click "Display" icon and choose the "Settings" tab then click "Advanced...".



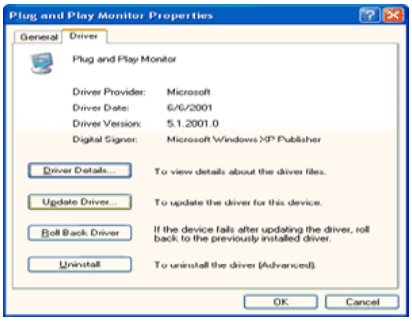



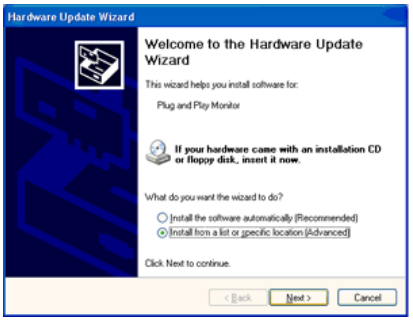

4. Click the "Properties" button on the "Monitor" tab and select "Driver" tab.




5. Click "Update Driver..." and select "Install from a list or..." then click "Next" button.





Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Plug and Play Monitor
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

6. Select "Don't search, I will..." then click "Next" and then click "Have disk".

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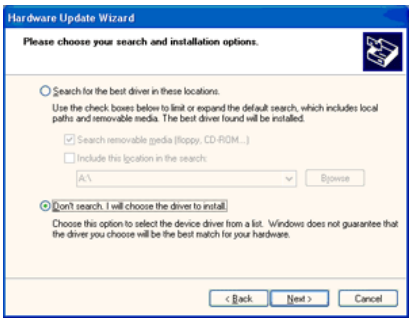
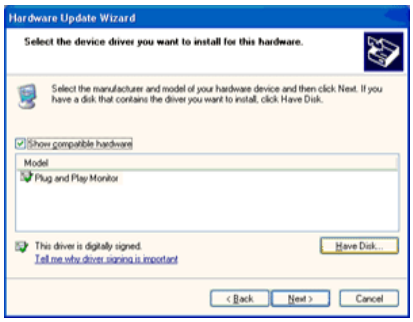
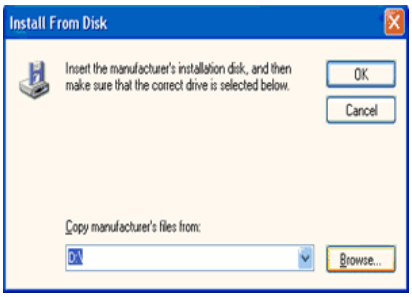
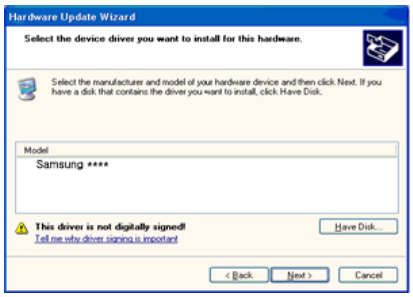

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
A:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

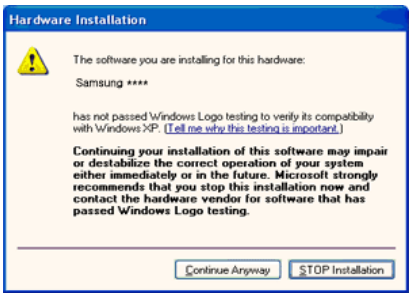

Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show compatible hardware
Model
Plug and Play Monitor
This driver is digitally signed.
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

7. Click the "Browse" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "Next" button.





Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Model
Samsung ****
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

8. If you can see following message window, then click the "Continue Anyway" button. Then click "OK" button.


Hardware Installation
The software you are installing for this hardware:
Samsung ****
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

**Note**

This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage.

http://www.samsung.com/

9. Click the "Close" button then click "OK" button continually.

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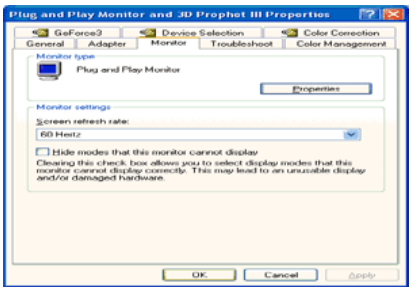


10. Monitor driver installation is completed.

Microsoft® Windows® 2000 Operating System

When you can see "Digital Signature Not Found" on your monitor, follow these steps.

1. Choose "OK" button on the "Insert disk" window.
2. Click the "Browse" button on the "File Needed" window.
3. Choose A:(D:\Driver) then click the "Open" button and then click "OK" button.

How to install

1. Click "Start", "Setting", "Control Panel".
2. Double click the "Display" icon.
3. Select the "Settings" tab and click "Advanced Properties" button.
4. Choose "Monitor".

   Case1 : If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation

   Case2 : If the "Properties" button is active, click the "Properties" button then follow next steps continually.
5. Click "Driver" and then click on "Update Driver..." then click on the "Next" button.
6. Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
7. Click the "Browse" button then choose A:(D:\Driver).
8. Click the "Open" button, then click "OK" button.
9. Choose your monitor model and click the "Next" button then click "Next" button.
10. Click the "Finish" button then the "Close" button.

    If you can see the "Digital Signature Not Found" window then click the "Yes" button. And click the "Finish" button then the "Close" button.

Microsoft® Windows® Millennium Operating System

1. Click "Start", "Setting", "Control Panel".
2. Double click the "Display" icon.
3. Select the "Settings" tab and click "Advanced Properties" button.

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4. Select the "Monitor" tab.
5. Click the "Change" button in the "Monitor Type" area.
6. Choose "Specify the location of the driver".
7. Choose "Display a list of all the driver in a specific location..." then click "Next" button.
8. Click the "Have Disk" button.
9. Specify A:\(D:\driver) then click "OK" button.
10. Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
11. Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.

Microsoft® Windows® NT Operating System

1. Click "Start", "Settings", "Control Panel", and then double-click "Display" icon.
2. In Display Registration Information window, click Settings Tab and then click "All Display Modes".
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click "OK".
4. Click "Apply" button if you see the screen working normally after clicking "Test". If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

**Note**

If there is no Mode at All Display Modes, select the level of resolution and vertical frequency by referring to the Preset Timing Modes in the user guide.

Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

1. Press "Enter" at the first and the second screen after executing the X86Config file.
2. The third screen is for setting your mouse.
3. Set a mouse for your computer.
4. The next screen is for selecting a keyboard.
5. Set a Keyboard for your computer.
6. The next screen is for setting your monitor.
7. First of all, set a horizontal frequency for your monitor. (You can enter the frequency directly.)
8. Set a vertical frequency for your monitor. (You can enter the frequency directly.)
9. Enter the model name of your monitor. This information will not affect the actual execution of X-Window.
10. You have finished setting up your monitor. Execute X-Window after setting other requested hardware.

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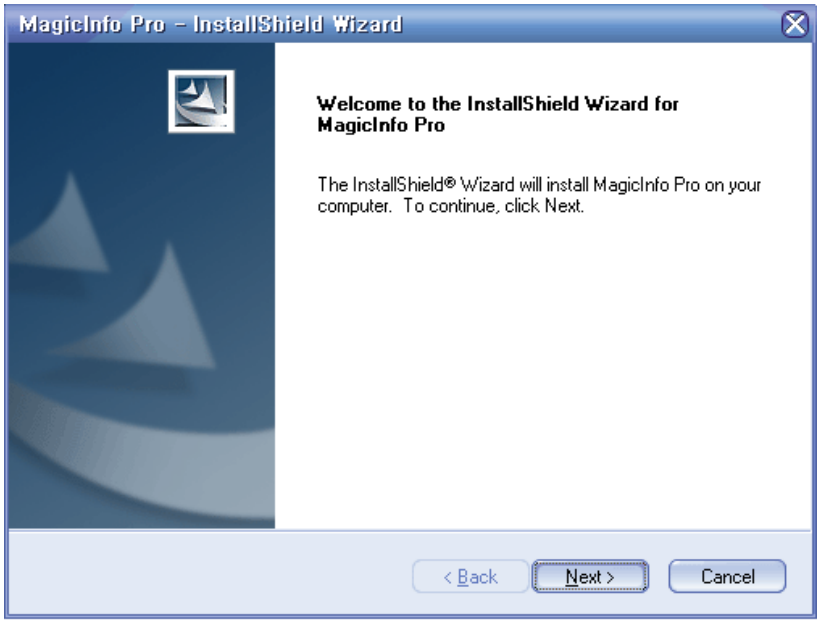
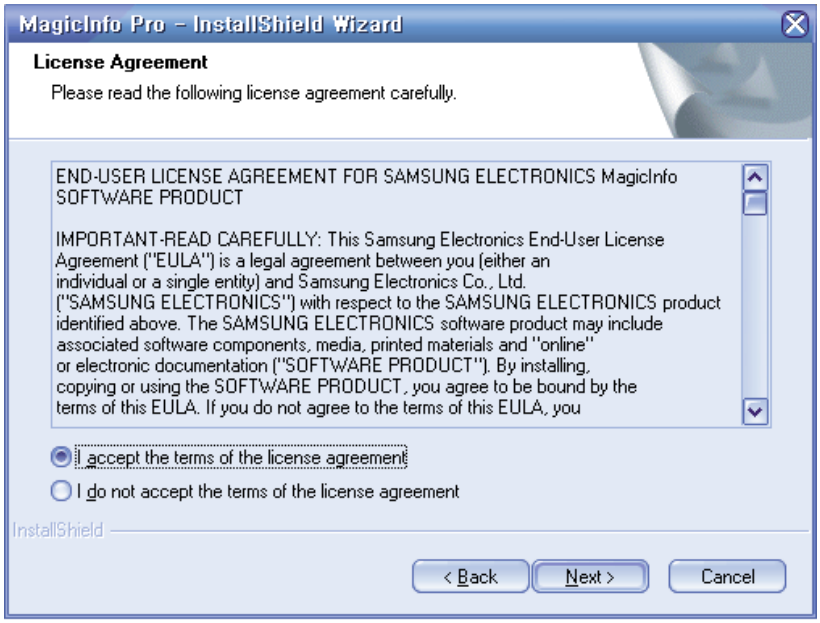
## Installation MagicInfo Pro

## Installation

1. Insert CD into the CD-ROM drive.
2. Click the MagicInfo Pro installation file.
3. When the Install Shield Wizard window appears, click "Next."


MagicInfo Pro - InstallShield Wizard
Welcome to the InstallShield Wizard for MagicInfo Pro
The InstallShield® Wizard will install MagicInfo Pro on your computer. To continue, click Next.
< Back
Next >
Cancel

4. Select "I agree to the terms of the license agreement" to accept the terms of use.


MagicInfo Pro - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
END-USER LICENSE AGREEMENT FOR SAMSUNG ELECTRONICS MagicInfo SOFTWARE PRODUCT
IMPORTANT-READ CAREFULLY: This Samsung Electronics End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Samsung Electronics Co., Ltd. ("SAMSUNG ELECTRONICS") with respect to the SAMSUNG ELECTRONICS product identified above. The SAMSUNG ELECTRONICS software product may include associated software components, media, printed materials and "online" or electronic documentation ("SOFTWARE PRODUCT"). By installing, copying or using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, you
I accept the terms of the license agreement
I do not accept the terms of the license agreement
InstallShield
< Back
Next >
Cancel

5. You are required to log in to the MagicInfo Pro Server program. Please enter the password to login. The password cannot be changed when you are logged in.

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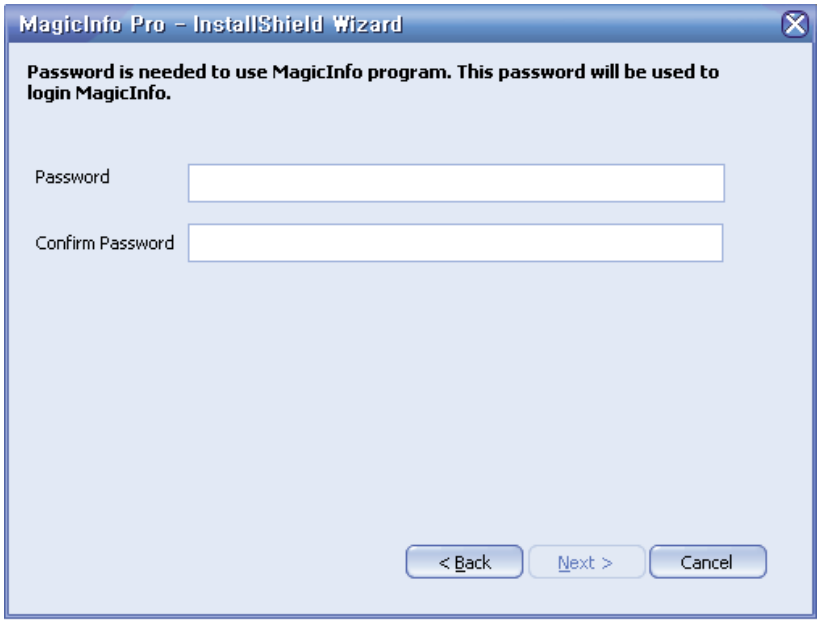
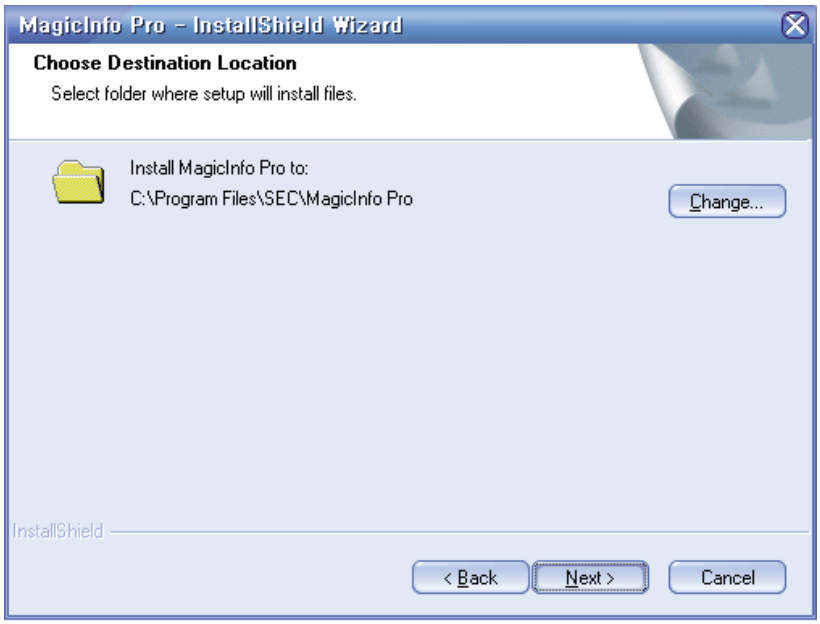

MagicInfo Pro – InstallShield Wizard
Password is needed to use MagicInfo program. This password will be used to login MagicInfo.
Password
Confirm Password
< Back
Next >
Cancel

6. Choose a folder to install the MagicInfo Pro program.




7. Click "Install."

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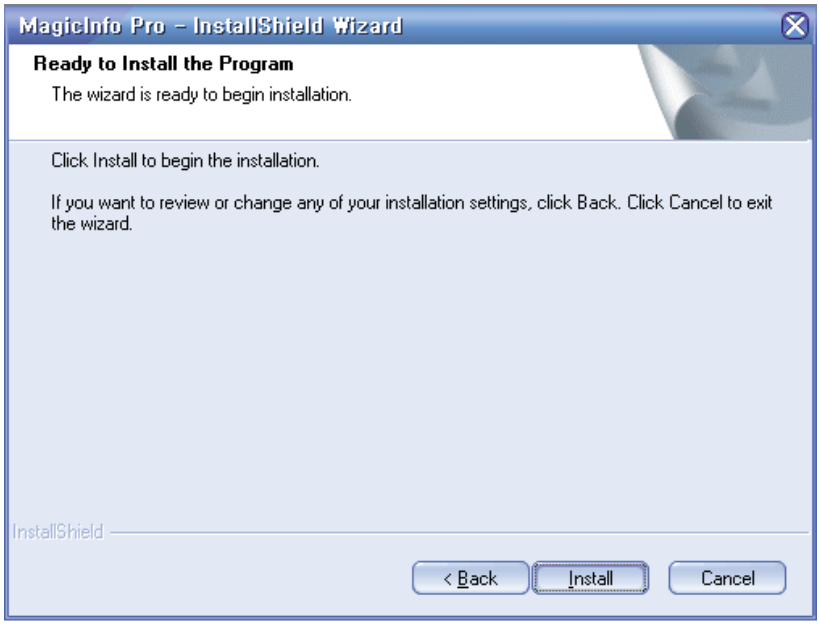
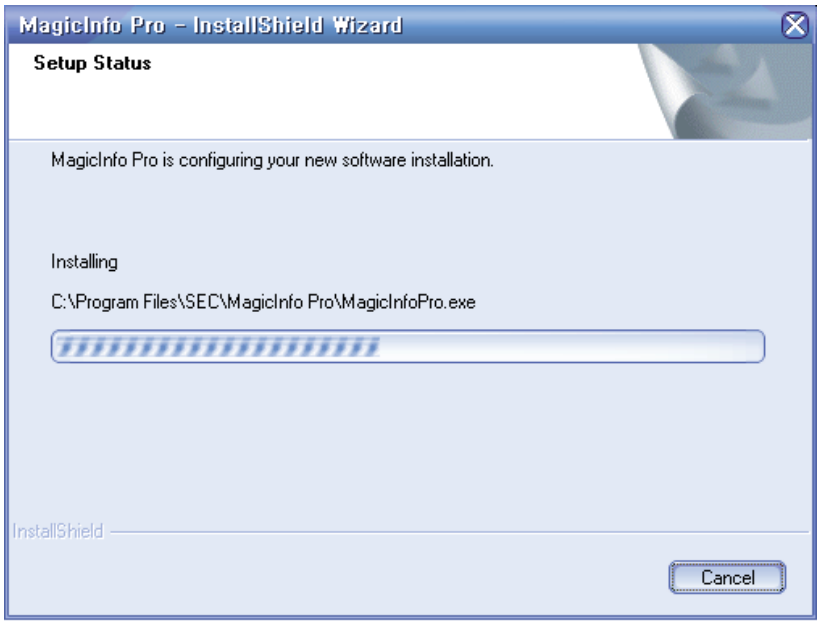

MagicInfo Pro – InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

8. The "Installation Status" window appears.




9. It is recommended restarting the system for the normal operation of the MagicInfo Pro Server program. Click "Finish".

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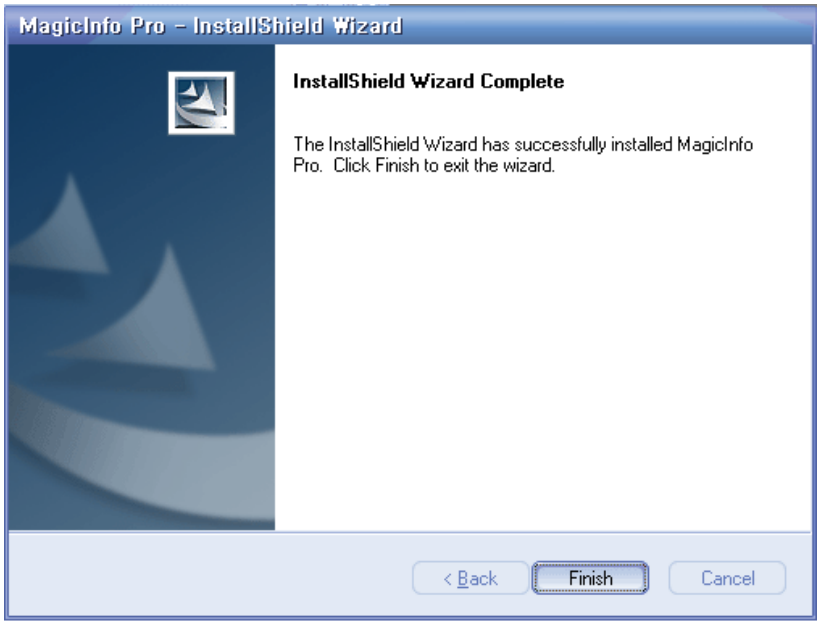
MagicInfo Pro - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed MagicInfo Pro. Click Finish to exit the wizard.
< Back
Finish
Cancel

10. When the installation is complete, the MagicInfo Pro executable icon appears on your desktop.

11. Double-click the icon to start the program.

## System Requirements

| | CPU | RAM | Ethernet | OS | Application |
|---|---|---|---|---|---|
| Minimum | P1.8 | 256M | 100M/1G | Windows XP Windows 2000 (Service Pack 4) | WMP 9 or later |
| Recommended | P3.0GHz | 512M | | | |

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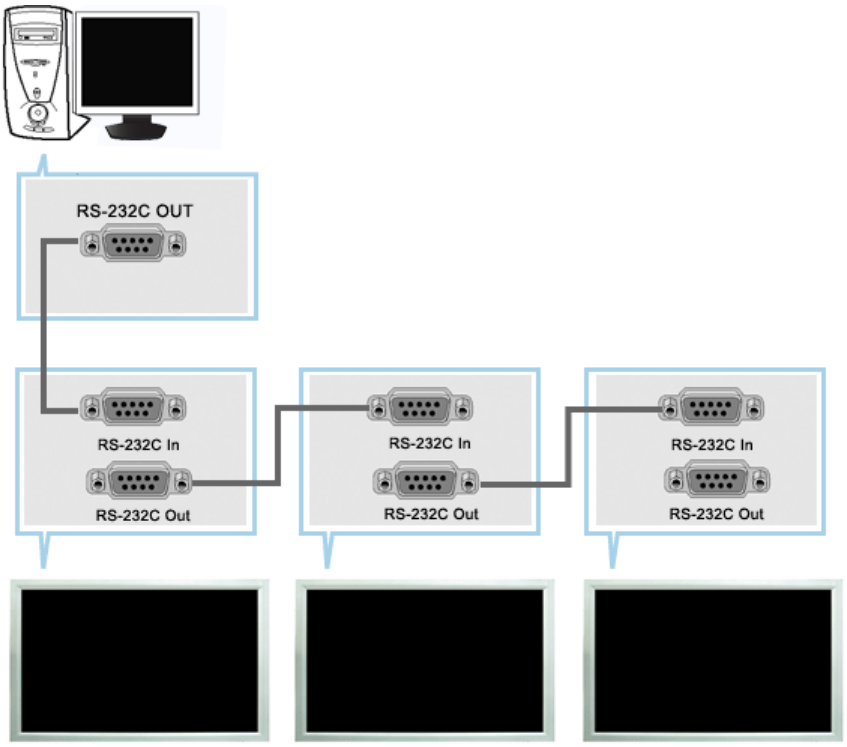
Multiple Display Control

# MDC System

## Introduction




A Multiple Display Control (MDC) is an application allowing various displays to be easily and simultaneously operated on a PC. RS-232C, a standard of serial communication, is used for the communication between a PC and a display. Therefore, a serial cable should be connected between the serial port on a PC and the serial port on a display.

## Main Screen

Click Start > Program > Samsung > MDC System to start the program.

Select a set to see the volume of the selected set within the slider.

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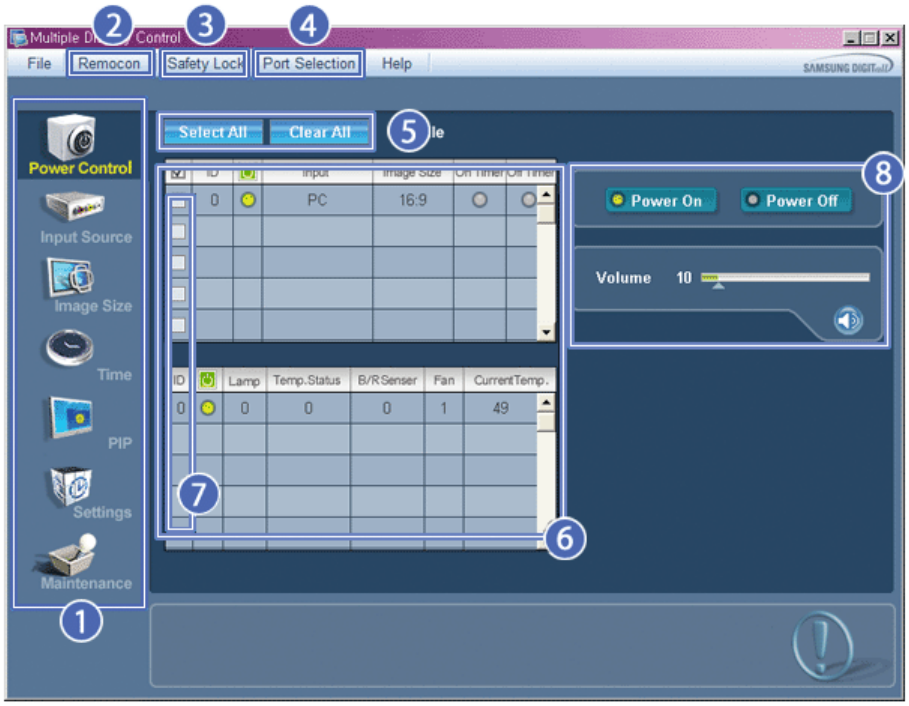


1. Main Icons
2. Remocon
3. Safety Lock
4. Port Selection
5. Select Button
6. Info Grid
7. Display Selection
8. Control Tools

---

1. Use the main icons to switch into each screen.
2. Allows you to enable or disable the remote control signal receiving function of the display unit.
3. Set the Safety Lock function.
   When setting the Lock function, you can only operate power and lock buttons on the remote control and set.
4. The setting for the PC Serial Port can change. The original value is COM1.
5. Click Select all or Clear to select or clear all displays.
6. Use Grid to view brief information on selected display.
7. Select a display from Display Selection.
8. Use Control Tools to control displays.

**<Note>** The remote control Enable/Disable function operates whether or not the power is On/Off, and this applies to all displays connected to the MDC. However, regardless of the status at the time the MDC is shut down, the remote control signal receiving function of all displays is initialized to Enable when the MDC is closed.

## Port Selection

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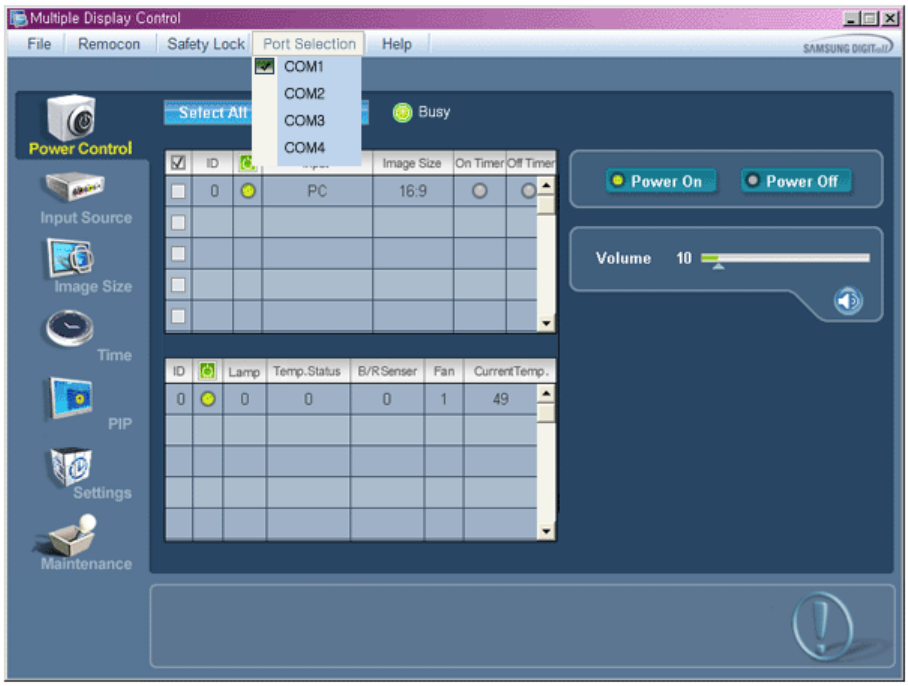


1. The Multiple Display Control is originally set to COM1.
2. If any port other than COM1 is used, COM1 through COM4 can be selected in the Port Selection Menu.
3. If the exact port name that is connected to the PDP Display using a serial cable is not selected, communication will be unavailable.
4. The selected port is stored in the program and used for the next program as well.

## Power Control

1. Click Power Control of the main icons and the Power Control screen appears.

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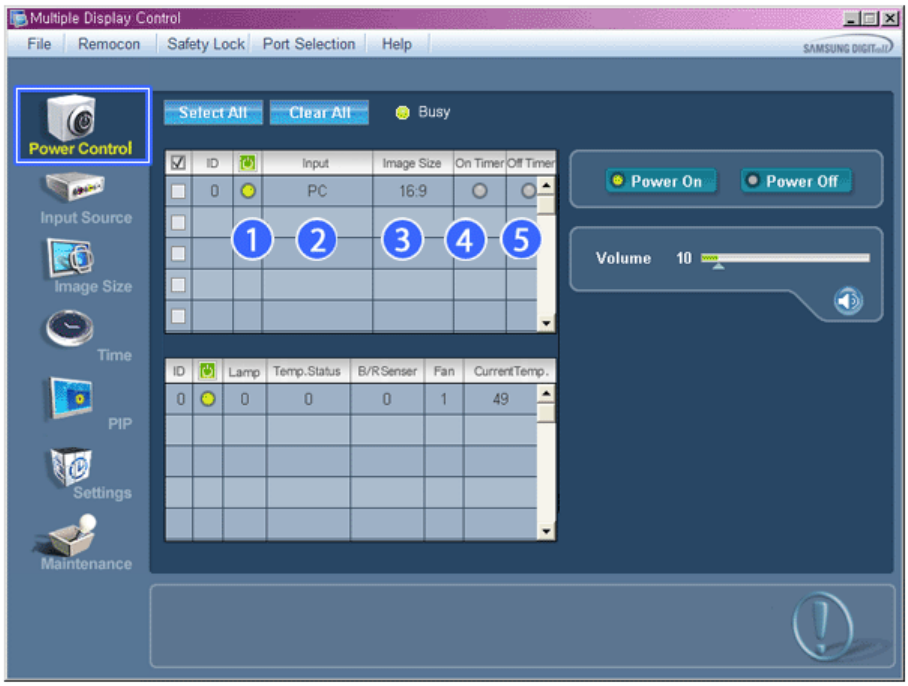
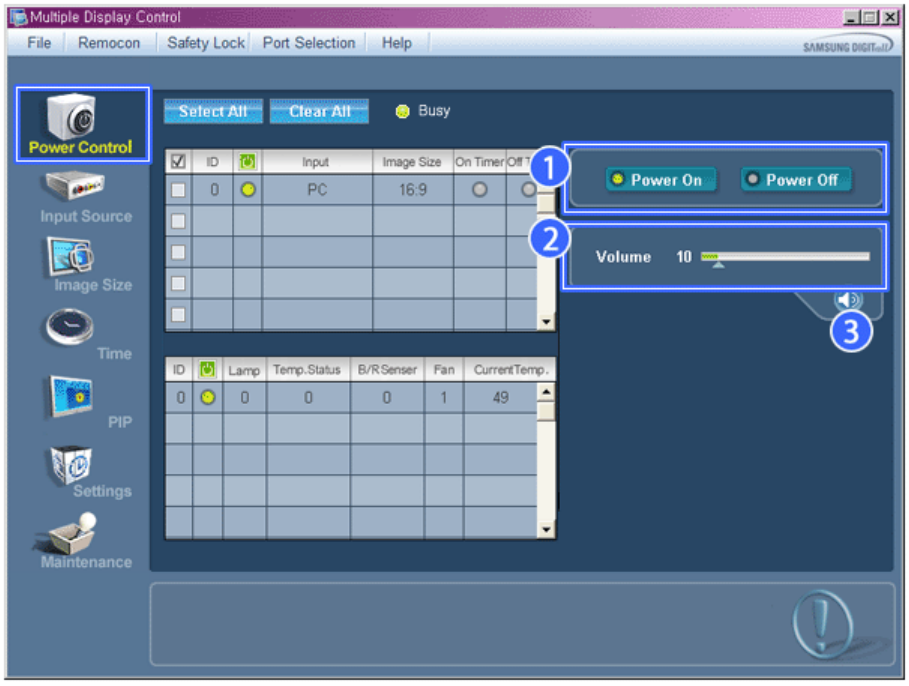



✱ Info Grid shows some basic information necessary to Power Control.

1) (Power Status)
2) Input
3) Image Size
4) On Timer
5) Off Timer

2. Use the Select All button or Check Box to choose a display to control.




✱ ☑ Power Control allows controlling some of the functions of the selected display.

1) Power On/Off

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- Turns the power of the selected display On/Off.

2) Volume
   - Controls the volume level of the selected display.
     It receives the volume value of the selected display from the sets and displays it in the slider.
     (When you cancel the selection or choose Select All, the value returns to the default value 10)

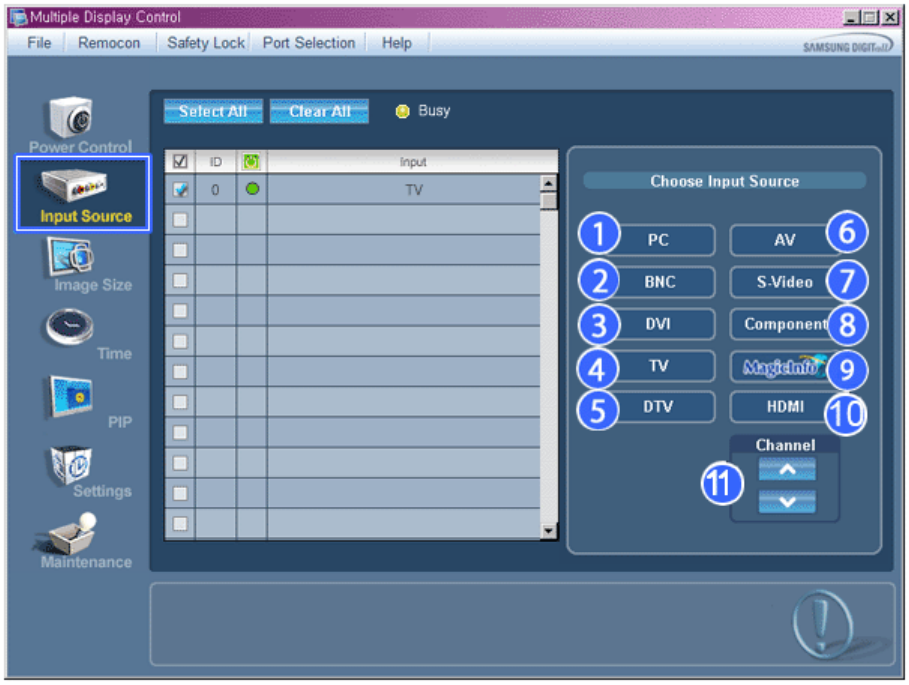
3) (Mute On/Off)
   - Turns on/off the Mute function of the selected display.
     When selecting one set at a time, turn on the Mute function for the selected set.
     The Mute function is disabled automatically when you adjust the volume level.
     (The values return to the default settings when you undo the selections or choose "Select All".)

* **The Power Control feature is available for all displays.**
* **The Volume Control and Mute features are available only for the displays whose power status is ON.**

## Input Source

1. Click Input Source of the main icons and the Input Source control screen appears.
   Click Select All or use Check Box to select a display to control.

• TV Mode




• PC Mode

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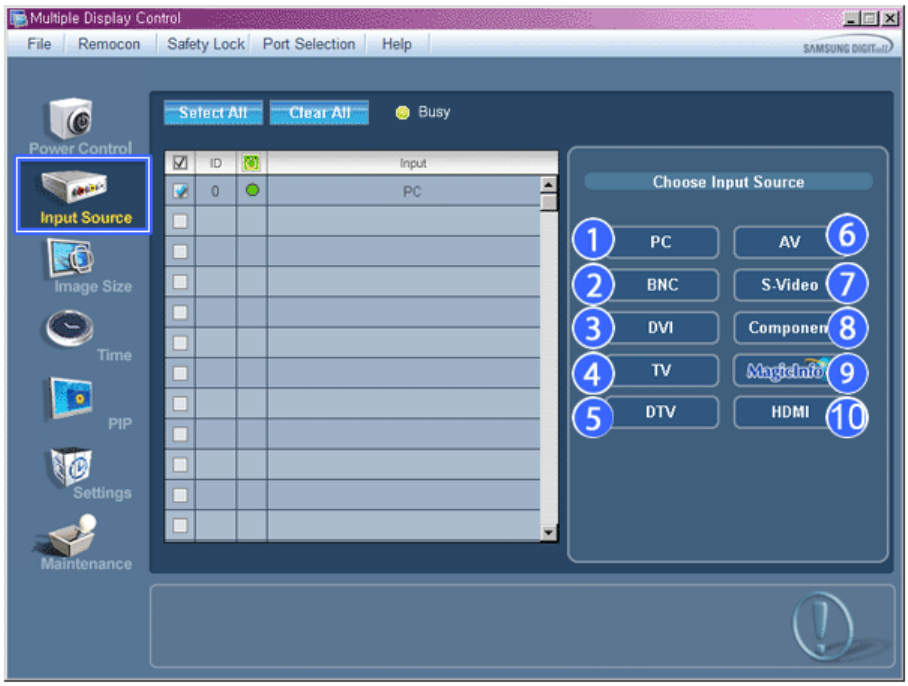


* Info Grid shows some basic information necessary to Input Source Control.

1) PC
   - Changes the Input Source of the selected display to PC.
2) BNC
   - Changes the Input Source of the selected display to BNC.
3) DVI
   - Changes the Input Source of the selected display to DVI.
4) TV
   - Changes the Input Source of the selected display to TV.
5) DTV
   - Changes the Input Source of the selected display to DTV.
6) AV
   - Changes the Input Source of the selected display to AV.
7) S-Video
   - Changes the Input Source of the selected display to S-Video.
8) Component
   - Changes the Input Source of the selected display to Component.
9) MagicInfo
   - The Input source of MagicInfo works only on MagicInfo model.
10) HDMI
   - Changes the Input Source of the selected display to HDMI.
11) Channel
   - Channel arrow appears when the Input Source is TV.

* **TV Source can be selected only in products with TV and controlling channels is allowed only when Input Source is TV.**
* **The Input Source Control feature is available only for the displays whose power status is ON.**

## Image Size

### PC, BNC, DVI

1. Click Image Size of the main icons and the Image Size control screen appears.

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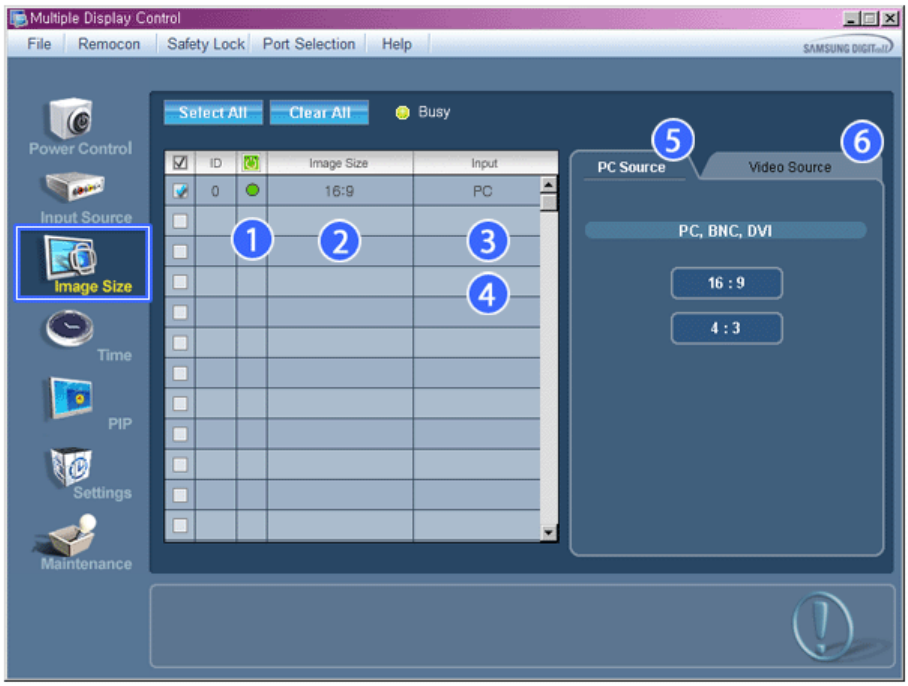


✱ Info Grid shows some basic information necessary to Image Size Control.

1) ( Power Status)
   - Shows the power status of the current display.
2) Image Size
   - Shows the current Image Size of the display in use.
3) Input
   - Shows the current Input Source of the display in use.
4) Info Grid displays only the displays whose Input Source is PC, BNC, DVI.
5) PC Source - When you click Image Size, the PC Source tab first appear.
   - The Image Size Control button controls Image Size available for PC, BNC, DVI.
6) Video Source
   - Click the Video Source tab to control Image Size for respective Input Source.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **Image Size Control is available only for the displays for which power status is ON.**

## Image Size

### TV, AV, S-Video, Component, DVI(HDCP), HDMI, DTV

1. Click Image Size of the main icons and the Image Size control screen appears.

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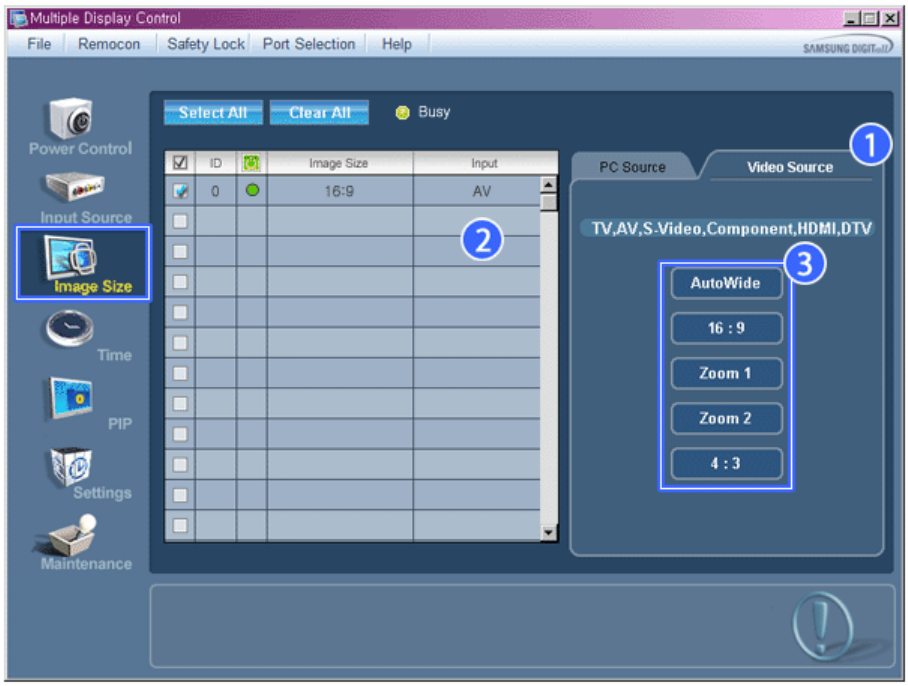


✱ Info Grid shows some basic information necessary to Image Size Control.

1) Click the Video Source tab to adjust Image Size for TV, AV, S-Video, Component, DVI(HDCP), HDMI, DTV. Click Select All or use Check Box to select a display to control.
2) Info Grid displays only the display having TV, AV, S-Video, Component or DVI(HDCP) as input source.
3) Switch Image Size of the selected display randomly.

**Note: Auto Wide, Zoom1 and Zoom2 are not available for selection when the input signal type for Component and DVI (HDCP) is 720p or 1080i.**
**( The Auto Wide mode is available only for TV, AV, and S-Video. )**

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **The Image Size Control feature is available only for the displays whose power status is ON.**

## Time

1. Click Time of the main icons and the Time Control screen appears.

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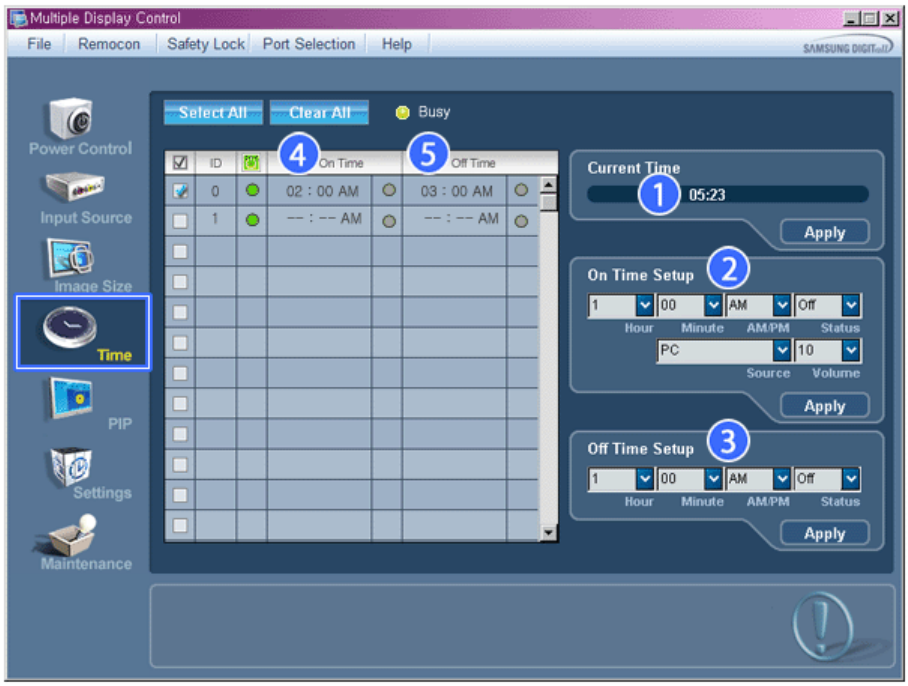


✱ Info Grid shows some basic information necessary to Time Control.

1) Current Time
   - Set the current time for the selected display (PC Time).
   - To change the current time, first change the PC Time.
2) On Time Setup
   - Set the Hour, Minute, AM/PM of On Time Setup, Status, Source, Volume of the selected display.
3) Off Time Setup
   - Set the Hour, Minute, and AM/PM, Status for Off Time Setup of the selected display.
4) Shows the On Time settings.
5) Shows the Off Time settings.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **Time Control is available only for the displays for which the power status is ON.**

✱ **At On Time Setup, TV Source functions only for TV Model.**

✱ **At On Time Setup, MagicInfo Source functions only for MagicInfo Model.**

## PIP

### PIP Size

1. Click PIP of the main icons and the PIP control screen appears.
   Click Select All or use Check Box to select a display to control.

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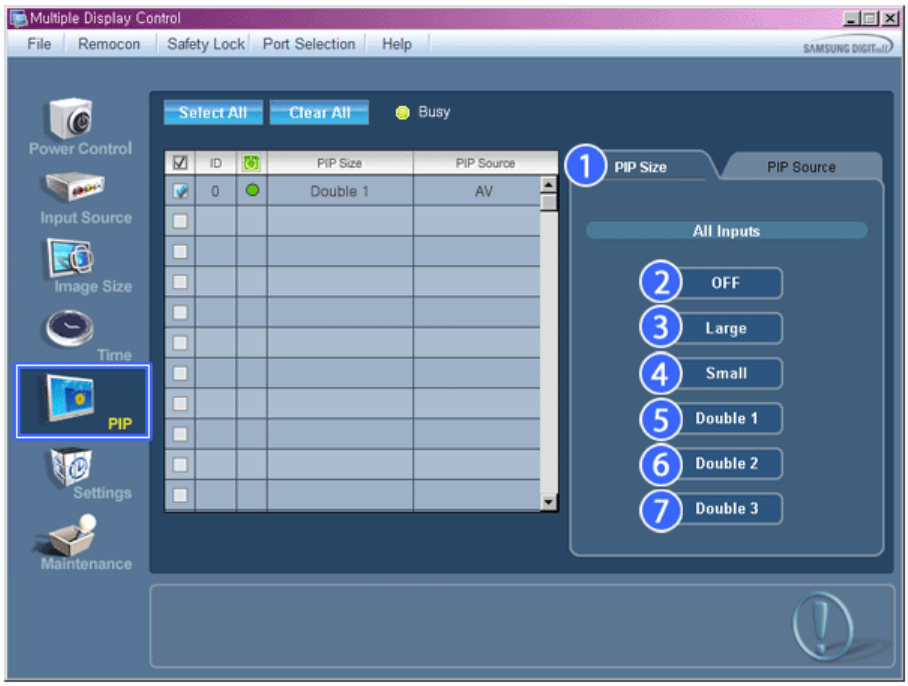


* Info Grid shows some basic information necessary to PIP Size Control.

1) PIP Size
   - Shows the current PIP Size of the display in use.
2) OFF
   - Turns off the PIP of the selected display.
3) Large
   - Turns on the PIP of the selected display and changes the size to Large.
4) Small
   - Turns on the PIP of the selected display and changes the size to Small.
5) Double 1
   - Turns on the PIP of the selected display and changes the size to Double 1.
6) Double 2
   - Turns on the PIP of the selected display and changes the size to Double 2.
7) Double 3 (Picture By Picture)
   - Turns on the PBP of the selected display and changes the size to Double 3.

* **The Input source of MagicInfo works only on MagicInfo model.**
* **The Input source of TV works only on TV model.**
* **PIP Size can be controlled with turning on the PDP Display power.**

## PIP

### PIP Source

1. Click PIP of the main icons and the PIP control screen appears.

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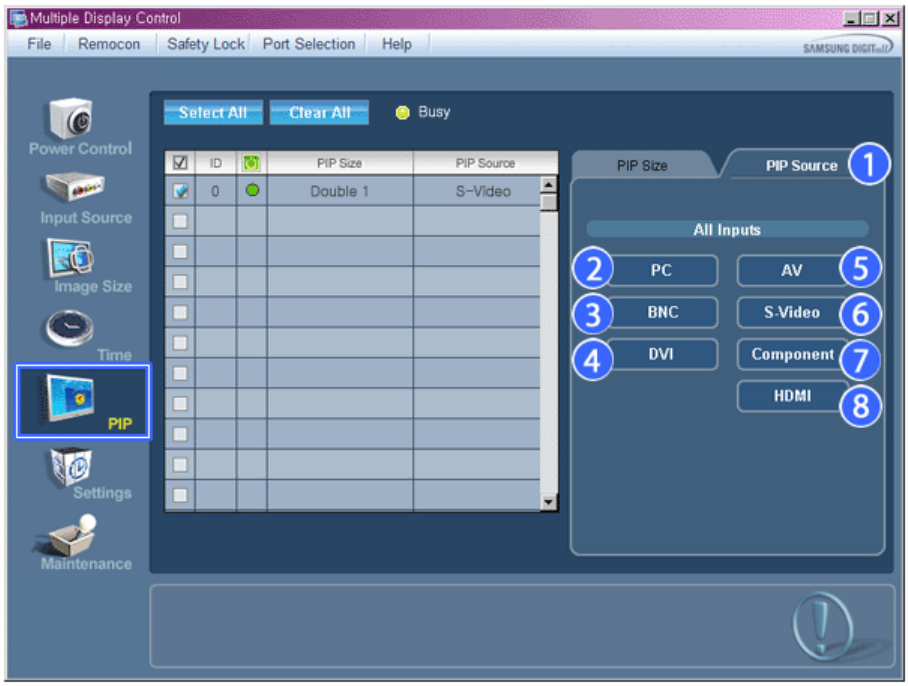


✱ Info Grid shows some basic information necessary to PIP Source Control.

1) PIP Source
   - PIP Source can be controlled with turning on the PDP Display power.
2) PC
   - Changes the source of the PIP of the selected display to PC.
3) BNC
   - Changes the source of the PIP of the selected display to BNC.
4) DVI
   - Changes the source of the PIP of the selected display to DVI.
5) AV
   - Changes the source of the PIP of the selected display to AV.
6) S-Video
   - Changes the source of the PIP of the selected display to S-Video.
7) Component
   - Changes the source of the PIP of the selected display to Component.
8) HDMI
   - Changes the source of the PIP of the selected display to HDMI.

**Note: Some of the PIP Sources may not be available for selection, depending on the input source type of the Main Screen.**

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The PIP Control feature is available only for the displays whose power status is ON and the PIP function is set to ON.**

## Settings

### Picture

1. Click Settings of the main icons and the Settings Control screen appears.

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* Info Grid shows some basic information necessary to Settings Control.
When each function is selected, the set value of the selected function is displayed in the slide.When selected, each function fetches the value for the set and displays it on the slide bar. When "Select All" is chosen, the default value is displayed. Changing a value in this screen will automatically change the mode to "CUSTOM."

1) Picture
   - Available only for TV, AV, S-Video, Component, HDMI, DTV.
2) Contrast
   - Adjusts Contrast of the selected display.
3) Brightness
   - Adjusts Brightness of the selected display.
4) Sharpness
   - Adjusts Sharpness of the selected display.
5) Color
   - Adjusts Color of the selected display.
6) Tint
   - Adjusts Tint of the selected display.
   - Available only for NT.
7) Color Tone
   - Adjusts the Color Tone for the selected display.
8) Color Temp
   - Adjusts the Color Temp for the selected display.
9) Brightness Sensor
   - Adjusts the Brightness Sensor for the selected display.
10) Dynamic Contrast
   - Adjusts the Dynamic Contrast for the selected display.

* **The Input source of MagicInfo works only on MagicInfo model.**
* **Color Temp is only enabled if the Color Tone is set to Off.**
* **The Input source of TV works only on TV model.**
* **This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.**

## Settings

## Picture PC

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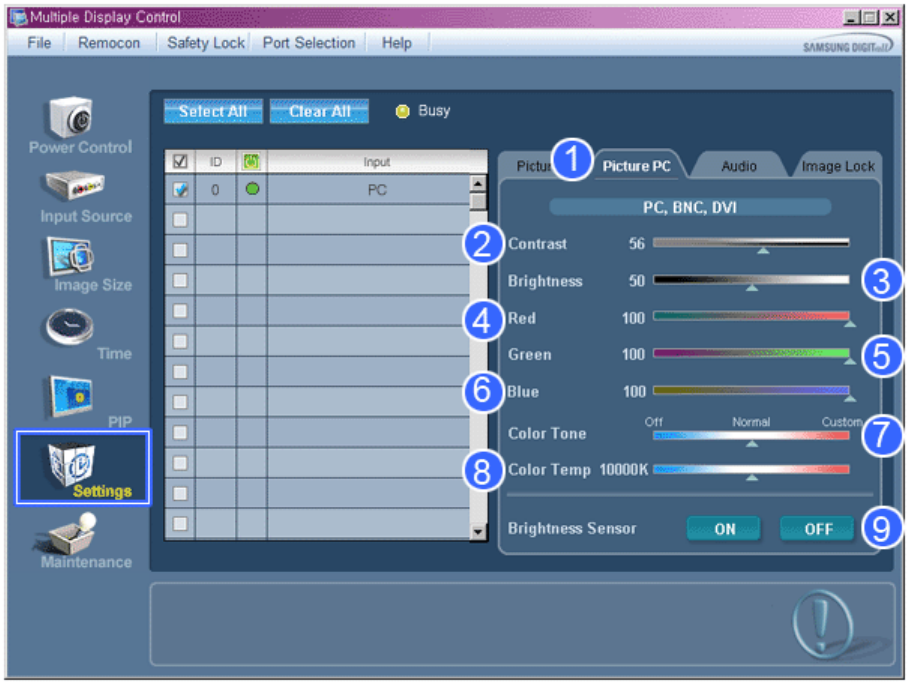
1. Click Settings of the main icons and the Settings Control screen appears.




✱ Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide. When selected, each function fetches the value for the set and displays it on the slide bar. When "Select All" is chosen, the default value is displayed. Changing a value in this screen will automatically change the mode to "CUSTOM."

1) Picture PC
   - Available only for PC, BNC, DVI.
2) Contrast
   - Adjusts Contrast of the selected display.
3) Brightness
   - Adjusts Brightness for the selected display.
4) Red
   - Adjusts red Color of the selected display.
   - Available only for NT.
5) Green
   - Adjusts green Color of the selected display.
   - Available only for NT.
6) Blue
   - Adjusts blue Color of the selected display.
   - Available only for NT.
7) Color Tone
   - Adjusts the Color Tone for the selected display.
8) Color Temp
   - Adjusts the Color Temp for the selected display.
9) Brightness Sensor
   - Adjusts the Brightness Sensor for the selected display.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **Color Temp is only enabled if the Color Tone is set to Off.**

✱ **This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.**

## Settings

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## Audio

1. Click Settings of the main icons and the Settings Control screen appears.

✱ Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide. When selected, each function fetches the value for the set and displays it on the slide bar. When "Select All" is chosen, the default value is displayed. Changing a value in this screen will automatically change the mode to "CUSTOM."

1) Audio
   - Controls audio settings for all input sources.
2) Bass
   - Adjusts Bass of the selected display.
3) Treble
   - Adjusts Treble of the selected display.
4) Balance
   - Adjusts Balance of the selected display.
5) SRS TS XT
   - SRS TS XT Sound ON/OFF of the selected display.
6) Sound Select
   - Select either Main or Sub when PIP is On.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.**

# Settings

## Image Lock

1. Click Settings of the main icons and the Settings Control screen appears.

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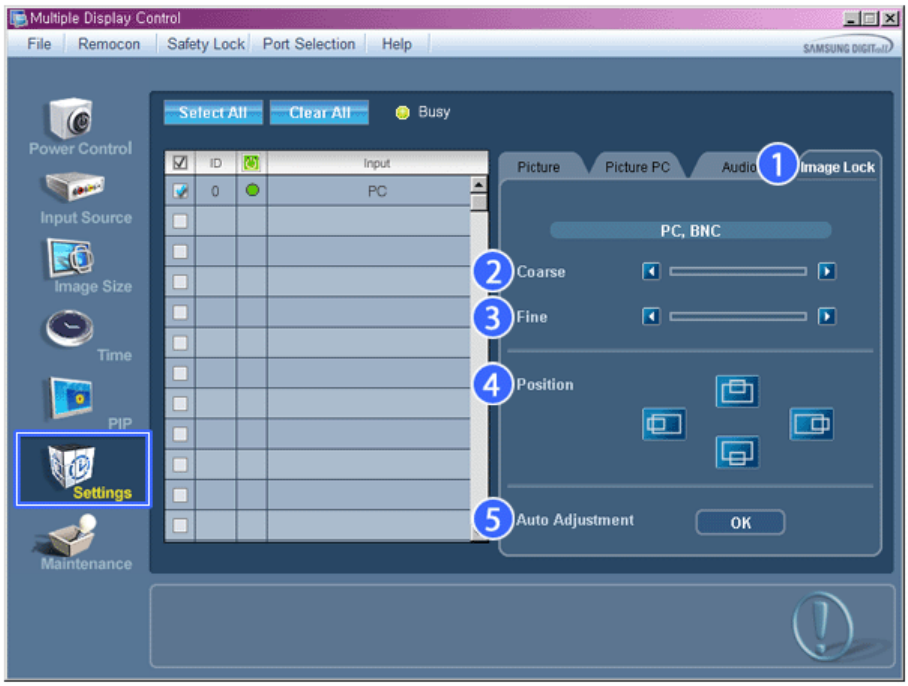


✱ Info Grid shows some basic information necessary to Settings Control.

1) Image Lock
   - Available only for PC, BNC.
2) Coarse
   - Adjusts Coarse of the selected display.
3) Fine
   - Adjusts Fine of the selected display.
4) Position
   - Adjusts Position of the selected display.
5) Auto Adjustment
   - Self-Adjust to the incoming PC signal.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **Settings Control is available only for the displays for which the power status is ON.**

## Maintenance

### Lamp Control

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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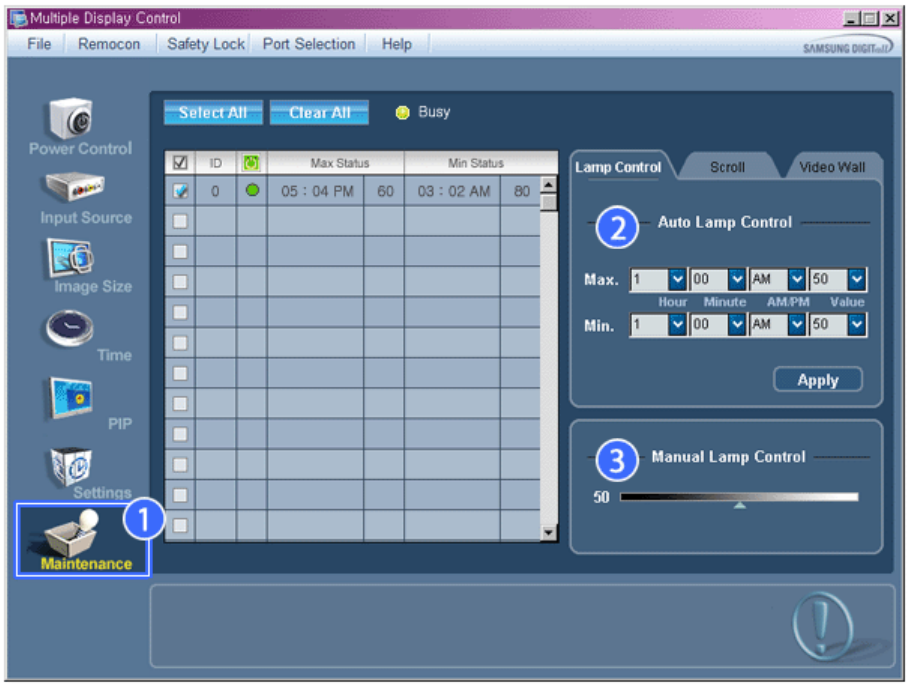


✱ An "Info Grid" showing several basic data items appears.

1) Maintenance
   - Allows the Maintenance Control function for all input sources.

2) Auto Lamp Control
   - Automatically adjusts the backlight of the selected display at a specified time.
     The Manual Lamp Control automatically turns off if you adjust using the Auto Lamp Control.

3) Manual Lamp Control
   - Allows you to adjust the backlight of the selected display regardless of the time.
     The Auto Lamp Control automatically turns off if you adjust using the Manual Lamp Control.

✱ **The Maintenance Control feature is available only for the displays whose power status is ON.**

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

## Maintenance

## Scroll

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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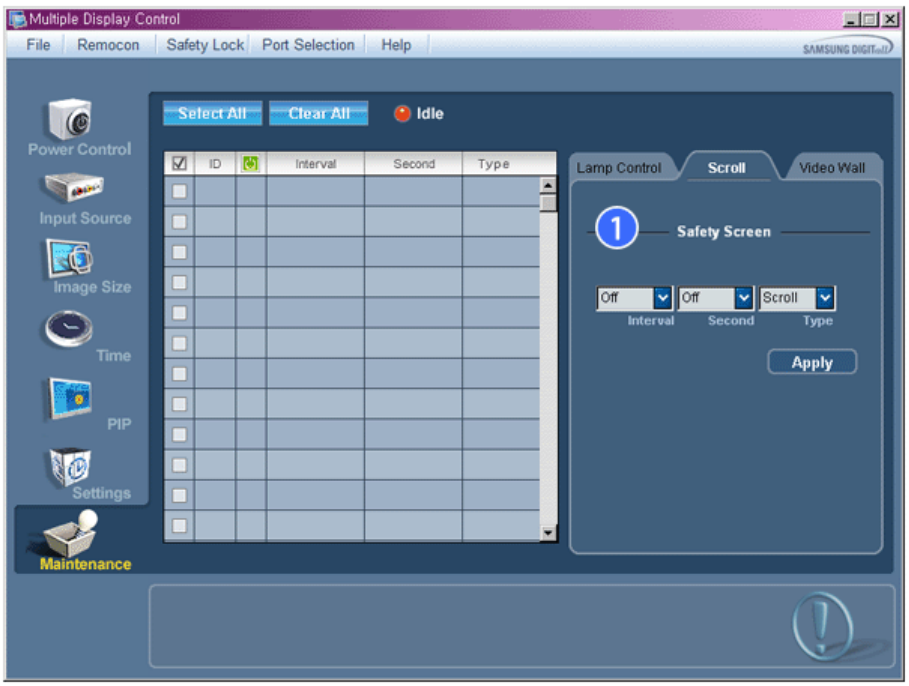


1) Safety Screen
   - Eliminates the afterimages that can result when the selected display stays in Pause mode for an extended period of time. You can set the repeat cycle timer by selecting the "Interval" by hour and "Second" by second.
     It can be set to Scroll, Pixel, Bar and Eraser by Screen Type.

* **The Input source of MagicInfo works only on MagicInfo model.**
* **The Input source of TV works only on TV model.**
* **Setting Second, you can set to 1, 2, 3, 4, 5 for Scroll Type and to 10, 20, 30, 40, 50 for Pixel, Bar, and Eraser Type.**
* **The Maintenance Control feature is available only for the displays whose power status is ON.**

## Maintenance

### Video Wall

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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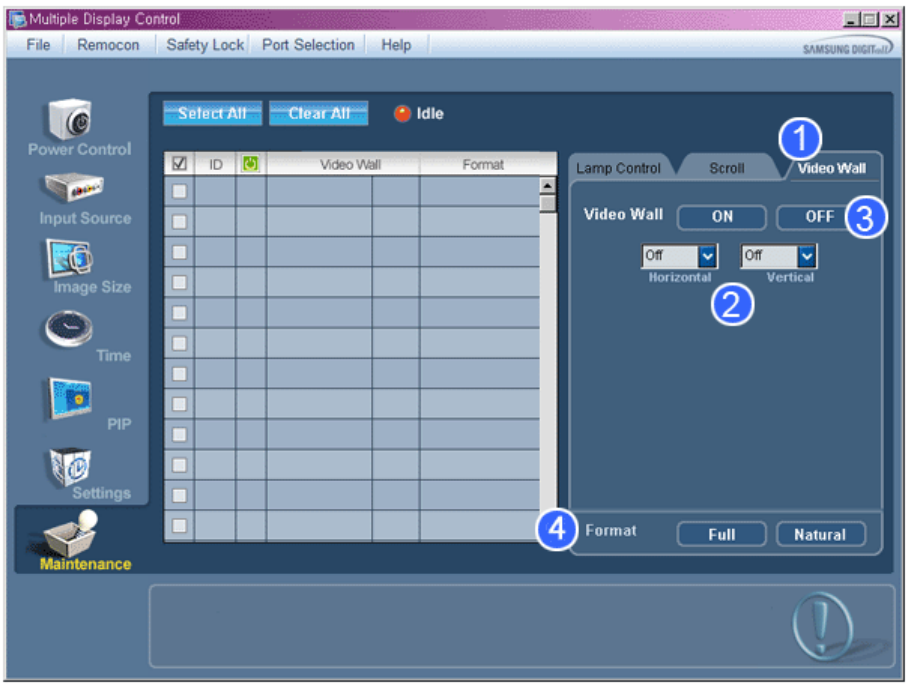


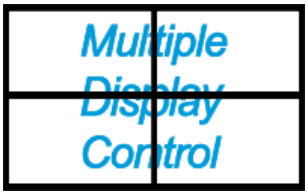

1) Video Wall
   - A Video Wall is a set of video screens that are connected together, so that each screen shows a part of the whole picture or so that the same picture is repeated on each screen.

2) Video Wall (Screen divider)
   - The screen can be divided into.
     You can select a number of screens with a different layout when dividing.
     - Select a mode from Screen divider.
     - Select a display from Display Selection.
     - The place will be set up by pressing a number in the selected mode.
     - The MDC program supplied by Samsung supports up to 5x5 PDP Displayes.

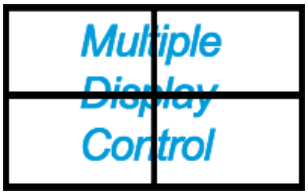
3) On / Off
   - Turns on/off the Video Wall function of the selected display.

4) Format
   - The format can be selected to see a divided screen.

- Full




- Natural




* **You may not operate this function in MagicInfo.**
* **The Input source of TV works only on TV model.**
* **The Maintenance Control function is available only for the displays where the power status is ON.**

## Troubleshooting

1. The display you wish to control does not appear on the Power Control Info Grid
   - Check the connection of RS232C. (Check if it is properly connected to the Com1 port)

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- Check the displays to see if any of the other displays connected have the same ID. If more than one displays have the same ID, those displays are not properly detected by the program due to data conflict.
- Check if the Display Set ID is a number between 0 and **25**. (Adjust using the Display menu)

**Note :** A Display Set ID must be a value between 0 and **25** .

2. The display you wish to control does not appear on the other Control Info Grids
   - Check to see if the display power is ON. (You can check this in Power Control Info Grid)
   - Check if you can change the input source of the display.

3. The dialogue box appears repeatedly.
   - Check to see if the display you wish to control is selected. ☑

4. Both On Timer and Off Timer have been set but different time is showing.
   - Apply current time to synchronize the display clocks.

5. The remote may not function properly when you turn off the remote Function, disconnect the RS-232C cable, or exit the program in an Irregular manner. Rerun the program and turn the remote function again to Restore normal functions.

   **<Note>** This program may malfunction due to problems in communication circuits or interference from electronic appliances nearby.

## Settings Value Display In Multiple Display Mode

✱ When there are more than one displays connected, the settings values are displayed as follows.

1. No selection: Displays the Factory Default Value.
2. Selected one display: Fetches and displays the settings value for the selected display.
3. Selected one display (ID1) and add another display (ID3): The program, which was displaying the settings value of ID 1, fetches and displays the value of ID3.
4. Selected all sets using Select All: Returns to the Factory Default Value.

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# Adjusting the LCD Display

## Input

### Available Modes

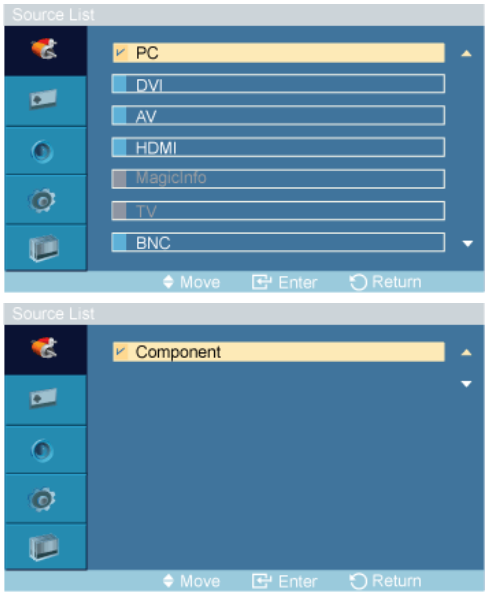
- **PC / BNC / DVI**
- **AV**
- **HDMI**
- **MagicInfo**
- **TV**
- **Component**

**Note**

- The **TV** menu is available when a TV tuner box is installed.
- The MagicInfo menu is available when a network box is installed.

## Source List P A H M T C

MENU → ENTER → [**Input**] → ENTER → [**Source List**] → ▲, ▼ → ENTER




Use to select **PC**, **DVI** or other external input sources connected to the LCD Display. Use to select the screen of your choice.

1. **PC**
2. **DVI**
3. **AV**
4. **HDMI**

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This is deactivated when a TV tuner box is installed.

5. **MagicInfo**

   This is activated when a network box is installed in the HN or H model.

6. **TV**

   This is activated when a TV tuner box is installed.

7. **BNC**

   **BNC** mode is not supported if the component cable is connected. To use **BNC** mode, remove the component cable and connect the BNC cable.

8. **Component**

   **Component** mode is not supported if the BNC cable is connected. To use **Component** mode, remove the BNC cable and connect the Component cable.

**Note**

- The direct button on the remote control is the 'SOURCE' button.
- For **PC** and **DVI**, this is deactivated if the cable is disconnected.

## Edit Name P A H T C

MENU → ENTER → [**Input**] → ▼ → ENTER → [**Edit Name**] → ▲ , ▼ → ENTER

Name the input device connected to the input jacks to make your input source selection easier.

**VCR** / **DVD** / **Cable STB** / **HD STB** / **Satellite STB** / **AV Receiver** / **DVD Receiver** / **Game** / **Camcorder** / **DVD Combo** / **DHR** / **PC**

## Picture [PC / BNC / DVI / MagicInfo Mode]

### Available Modes

- P **PC / BNC / DVI**

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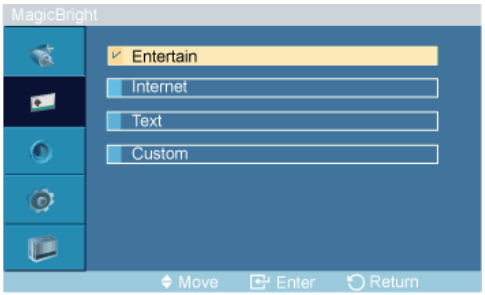
- **AV**
- **HDMI**
- **MagicInfo**
- **TV**
- **Component**

**Note**

- The **TV** menu is available when a TV tuner box is installed.
- The MagicInfo menu is available when a network box is installed.

## MagicBright PM

MENU → ▼ → ENTER → [**Picture**] → ENTER → [**MagicBright**] → ▲, ▼ → ENTER




**MagicBright** is a feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: **Entertain**, **Internet**, **Text** and **Custom**. Each mode has its own pre-configured brightness value. You can easily select one of the four settings by simply pressing the **MagicBright** control button.

1. **Entertain**

   High brightness

   For documents or works involving heavy text.

2. **Internet**

   Medium brightness

   For working with a mixture of images such as texts and graphics.

3. **Text**

   Normal brightness

   For documents or works involving heavy text.

4. **Custom**

   Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste.

   If this is the case, adjust the brightness and contrast by using the OSD menu.

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## Custom PM

By using the on-screen menus, the contrast and brightness can be changed to your personal preference.

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**]

**Note**

By adjusting the picture using the **Custom** function, **MagicBright** will change to **Custom** mode.

## Contrast

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ENTER→ [**Contrast**] → ◀, ▶ → ENTER

Adjusts the Contrast.

## Brightness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼→ ENTER → [**Brightness**] → ◀, ▶ → ENTER

Adjusts the Brightness.

## Sharpness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼→ ▼→ ENTER → [**Sharpness**] → ◀, ▶ → ENTER

Adjusts the Sharpness.

## Color Tone PM

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →ENTER → [**Color Tone**] → ▲ , ▼ → ENTER

The color tones can be changed.

1. **Off**
2. **Cool**
3. **Normal**

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4. **Warm**

5. **Custom**

**Note**

If you set the **Color Tone** to **Cool**, **Normal**, **Warm**, or **Custom**, the **Color Temp** function is disabled.

If you set the **Color Tone** to **Off**, the **Color Control** function is disabled

## Color Control PM

Adjusts individual Red, Green, Blue color balance.

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼→ ENTER → [**Color Control**]

**Note**

If you adjust the picture by using the **Color Control** function, **Color Tone** will turn to the **Custom** mode.

## Red

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Control**] → ENTER → [**Red**] → ◄, ► → ENTER

## Green

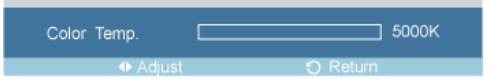
MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Control**] → ▼→ ENTER → [**Green**] → ◄, ► → ENTER

## Blue

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Control**] → ▼ → ▼→ ENTER → [**Blue**] → ◄, ► → ENTER

## Color Temp PM

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Temp**] → ◄, ► → ENTER




**Color Temp** is a measure of the 'warmth' of the image colors.

**Note**

This function is only enabled if the **Color Tone** is set to **Off**.

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## Image Lock

**Image Lock** is used to fine-tune and get the best image by removing noise that creates unstable images with jitters and shakiness. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again.

(Available in **PC** mode only)

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**]

## Coarse

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ENTER → [**Coarse**] → ◀, ▶ → ENTER

Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu.

## Fine

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ▼ → ENTER → [**Fine**] → ◀, ▶ → ENTER

Removes noise such as horizontal stripes. If the noise persists even after Fine tuning, repeat it after adjusting the frequency (clock speed).

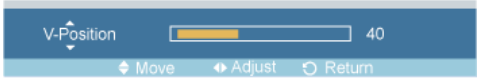
## H-Position

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ▼→ ▼ → ENTER → [**H-Position**] → ◀, ▶ → ENTER

Adjusts the screen location horizontally.

## V-Position

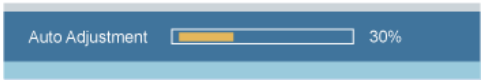
MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ▼→ ▼→ ▼ → ENTER → [**V-Position**] → ◀, ▶ → ENTER




Adjusts the screen location vertically.

## Auto Adjustment

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ → ENTER → [**Auto Adjustment** ]




The values of **Fine**, **Coarse**, **Position** are adjusted automatically. By changing the resolution in the control panel, the auto function is performed.

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(Available in **PC** mode only)

**Note**

The direct button on the remote control is the 'AUTO' button.

## Signal Balance

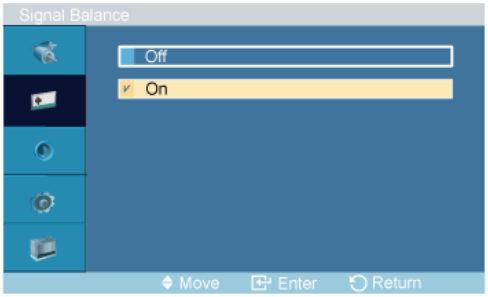
This is used to make up for the weak RGB signal transmitted by a long signal cable.

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ →▼ → ENTER → [**Signal Balance**]

(Available in **PC** mode only)

## Signal Balance

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ →▼ → ENTER → [**Signal Balance**] → ENTER → [**Signal Balance**] → ▲ , ▼ → ENTER




Selects either **On** or **Off** with the signal control.

## Signal Control

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ▼→ ENTER → [**Signal Control**]

1. **R-Gain**

   MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ▼→ ENTER → [**Signal Control**] → ENTER → [**R-Gain**] → ◄, ► → ENTER

2. **G-Gain**

   MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ▼→ ENTER → [**Signal Control**] → ▼ → ENTER→ [**G-Gain**] → ◄, ► → ENTER

3. **B-Gain**

   MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ▼→ ENTER → [**Signal Control**] → ▼ → ▼ → ENTER→ [**B-Gain**] → ◄, ► → ENTER

4. **R-Offset**

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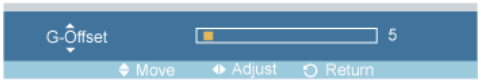
MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ▼→ ENTER → [**Signal Control**] → ▼→ ▼ → ▼ → ENTER→ [**R-Offset**] → ◀, ▶ → ENTER

5. **G-Offset**

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ▼→ ENTER → [**Signal Control**] → ▼ → ▼ → ▼ → ▼ → ENTER→ [**G-Offset**] → ◀, ▶ → ENTER

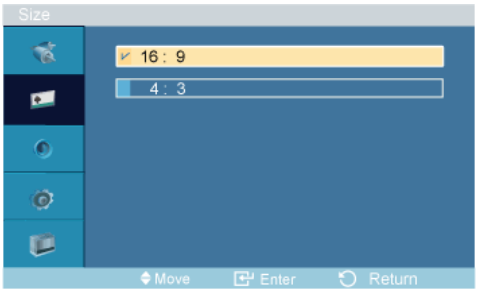



6. **B-Offset**

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ▼→ ENTER → [**Signal Control**] → ▼→ ▼ → ▼ → ▼ → ▼ → ENTER→ [**B-Offset**] → ◀, ▶ → ENTER

## Size

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ▼→ ENTER → [**Size**] → ▲ , ▼ → ENTER

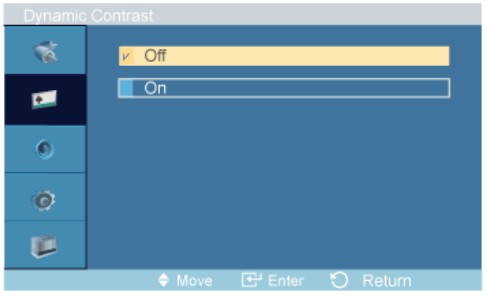



The **Size** can be switched.

1. **16:9**
2. **4:3**

## Dynamic Contrast

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ →▼ →▼ → ENTER → [**Dynamic Contrast** ]




→ ▲ , ▼ → ENTER

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**Dynamic Contrast** automatically detects the distribution of the visual signal and adjusts to create an optimum contrast.

1. **Off**
2. **On**

## Picture [ AV / HDMI / TV / Component Mode]

### Available Modes

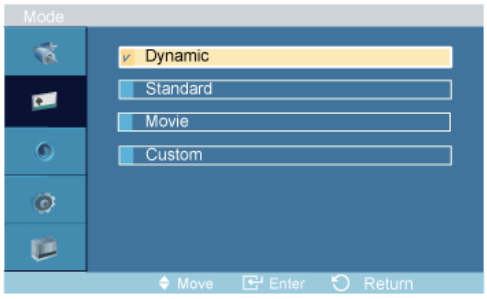
- **PC / BNC / DVI**
- **AV**
- **HDMI**
- **MagicInfo**
- **TV**
- **Component**

**Note**

- The **TV** menu is available when a TV tuner box is installed.
- The MagicInfo menu is available when a network box is installed.

## Mode AHTC

MENU → ▼ → ENTER → [**Picture**] → ENTER → [**Mode**] → ▲, ▼ → ENTER




The LCD Display has four automatic picture settings ("**Dynamic**", "**Standard**", "**Movie**" and "**Custom**") that are preset at the factory.

**Dynamic**, **Standard**, **Movie**, or **Custom** can be activated.

1. **Dynamic**
2. **Standard**
3. **Movie**
4. **Custom**

**Note**

The direct button on the remote control is the 'P.MODE' button.

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## Custom AHTC

By using the on-screen menus, the contrast and brightness can be changed to your personal preference.

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**]

## Contrast

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ENTER→ [**Contrast**] → ◀, ▶ → ENTER

Adjusts the Contrast.

## Brightness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼→ ENTER → [**Brightness**] → ◀, ▶ → ENTER

Adjusts the Brightness.

## Sharpness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼→ ▼→ ENTER → [**Sharpness**] → ◀, ▶ → ENTER

Adjusts the picture Sharpness.

## Color

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼→ ▼→ ▼→ ENTER → [**Color**] → ◀, ▶ → ENTER

Adjusts the picture Color.

## Tint

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼ → ▼ → ▼→ ▼→ ENTER → [**Tint**] → ◀, ▶ → ENTER

Adds a natural tone to the display.

**Note**

**Tint** function can be available just in NTSC system.

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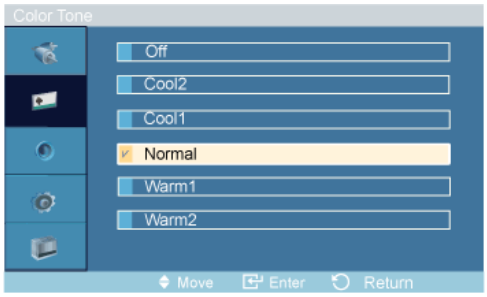
## Color Tone AHTC

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ENTER → [**Color Tone**] → ▲ , ▼ → ENTER




The color tones can be changed. The individual Color components are also user adjustable.

1. **Off**
2. **Cool2**
3. **Cool1**
4. **Normal**
5. **Warm1**
6. **Warm2**

**Note**

If you set the **Color Tone** to **Cool2**, **Cool1**, **Normal**, **Warm1**, or **Warm2**, the **Color Temp** function is disabled.

## Color Temp. AHTC

MENU → ▼ → ENTER → [**Picture**] → ▼ →▼ →▼ → ENTER → [**Color Temp.**] → ◀, ▶ → ENTER

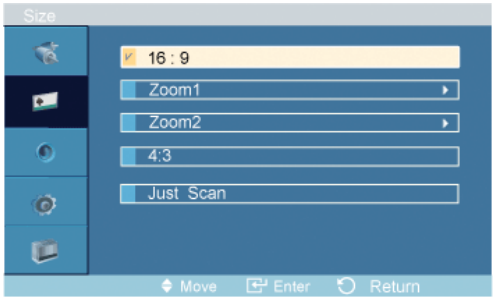
**Color temp** is a measure of the 'warmth' of the image colors.

**Note**

This function is only enabled if the **Color Tone** is set to **Off**.

## Size AHC

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ → ENTER → [**Size**] → ▲ , ▼ → ENTER




The **Size** can be switched.

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1. **16:9** - Sets the picture to 16:9 wide mode.
2. **Zoom 1** - Magnifies the size of the picture on the screen.
3. **Zoom 2** - Magnifies the size of the picture more than "**Zoom 1**".
4. **4:3** - Sets the picture to 4:3 normal mode.
5. **Just Scan** - Displays the input scenes as they are without any cutoff when HDMI 720p, 1080i, 1080p signals are input.

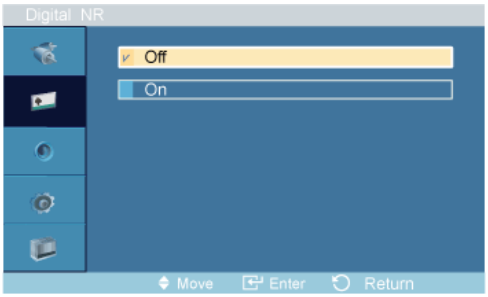
**Note**

Certain external devices may feed the display an out of spec signal that may cause cutoff even when using the **Just Scan** feature.

**ZOOM1**, **ZOOM2** will be unavailabel in **HDMI** mode.

## Digital NR (Digital Noise Reduction) AHTC

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ → ENTER → [**Digital NR**] → ▲ , ▼ → ENTER

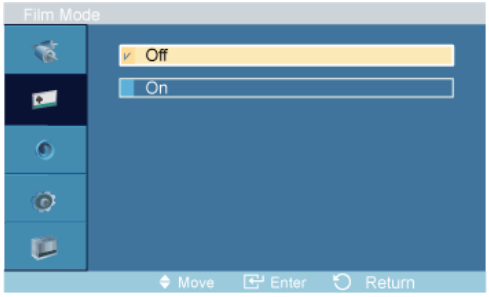



Turns the Digital Noise Reduction feature **Off**/**On**. The Digital Noise Reduction feature allows you to enjoy clearer and crisper images.

1. **Off**
2. **On**

## Film Mode ATC

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ENTER → [**Film Mode** ] → ▲ , ▼ → ENTER




Turns **Film Mode Off**/**On**.

The **Film Mode** feature offers you a theater-quality viewing experience.

(In **HDMI** mode, this function can be available when the input signal is interlaced scan; it cannot be available with progressive scan signal.)

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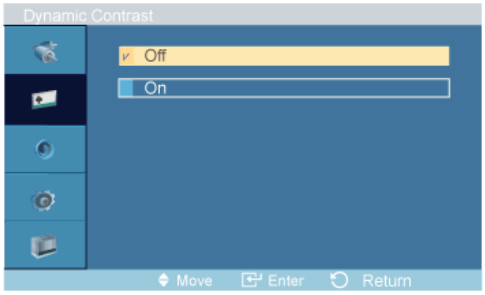
1. **Off**
2. **On**

## Dynamic Contrast A H T

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ →▼ →▼ → ENTER → [**Dynamic Contrast** ]




→ ▲ , ▼ → ENTER

**Dynamic Contrast** automatically detects the distribution of the visual signal and adjusts to create an optimum contrast.

1. **Off**
2. **On**

## Sound

### Available Modes

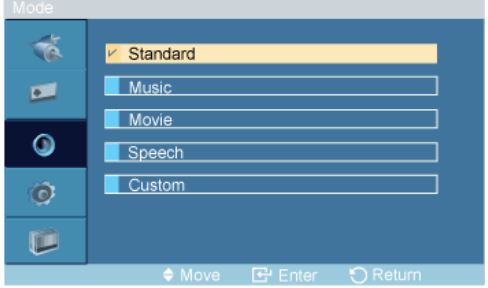
- P **PC / BNC / DVI**
- A **AV**
- H **HDMI**
- M **MagicInfo**
- T **TV**
- C **Component**

**Note**

- The **TV** menu is available when a TV tuner box is installed.
- The MagicInfo menu is available when a network box is installed.

## Mode P A H M T C

MENU → ▼ →▼ → ENTER → [**Sound**] → ENTER → [**Mode**] → ▲ , ▼ → ENTER

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The LCD Display has a built-in high fidelity stereo amplifier.

1. **Standard**

   Selects **Standard** for the standard factory settings.

2. **Music**

   Selects **Music** when watching music videos or concerts.

3. **Movie**

   Selects **Movie** when viewing movies.

4. **Speech**

   Selects **Speech** when watching a show that is mostly dialogue (i.e., news).

5. **Custom**

   Selects **Custom** if you want to adjust the settings according to your personal preferences.

## Custom P A H M T C

The sound settings can be adjusted to suit your personal preferences.

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom** ]

**Note**

- You can hear the sound even when sound value is set to 0.
- If you adjust sound using **Custom** function, **Mode** will turn to **Custom** mode.

## Bass

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom** ]→ENTER→ [**Bass**] → ◄, ► → ENTER

Emphasizes low frequency audio.

## Treble

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom** ]→▼→ENTER→ [**Treble**] → ◄, ► → ENTER

Emphasizes high frequency audio.

## Balance

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom** ]→▼→▼→ENTER→ [**Balance**] → ◄, ► → ENTER

Allows you to Adjusts the sound balance between the left and right speakers.

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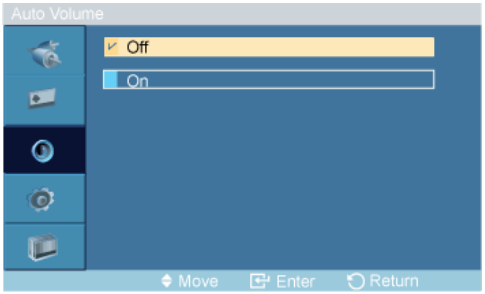
## Auto Volume PAHMTC

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→▼→ ENTER → [**Auto Volume**] → ▲ , ▼ → ENTER

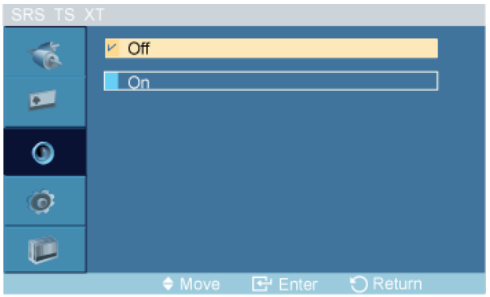



Reduces the difference in volume control between broadcasters.

1. **Off**
2. **On**

## SRS TS XT PAHMTC

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→▼→▼→ ENTER → [**SRS TS XT**] → ▲ , ▼ → ENTER




**SRS TS XT** is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

1. **Off**
2. **On**

**Note**

The direct button on the remote control is the 'SRS' button.

## Setup

### Available Modes

- **PC / BNC / DVI**
- **AV**
- **HDMI**
- **MagicInfo**

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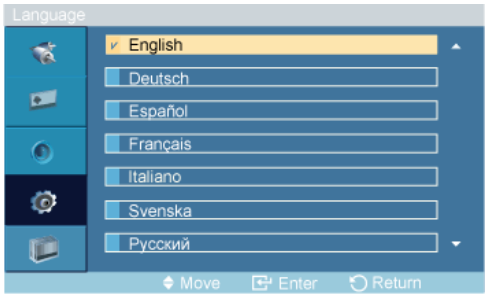
- **TV**
- **Component**

**Note**

- The **TV** menu is available when a TV tuner box is installed.
- The MagicInfo menu is available when a network box is installed.

## Language

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ENTER → [**Language** ] → ▲ , ▼ → ENTER




You can choose one of 11 languages.

English,Deutsch,Español,Français,Italiano,Svenska,Русский
Português, 中国语, 日本語, 한국어

**Note**

The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.

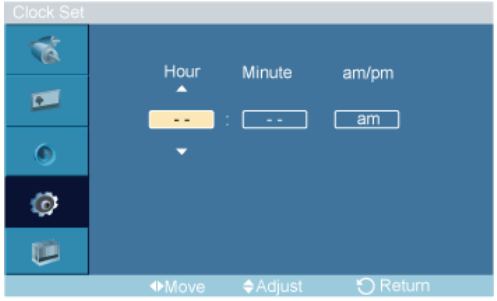
## Time

Selects from one of 4 time settings, **Clock Set**, **Sleep Timer**, **On Timer**, and **Off Timer**.

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time** ]

## Clock Set

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time** ] → ENTER→ [**Clock Set**] → ▲ , ▼ → ◀, ▶ → ENTER




Current Time Setting.

## Sleep Timer

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time** ] → ▼ → ENTER→ [**Sleep Timer**] → ▲ , ▼ → ENTER

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Turns the LCD Display off automatically at certain times.

1. **Off**
2. **30**
3. **60**
4. **90**
5. **120**
6. **150**
7. **180**

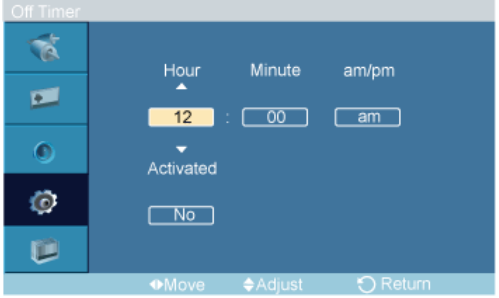
## On Timer

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time** ] → ▼→ ▼ → ENTER→ [**On Timer**] → ▲ , ▼ / ◄, ► → ENTER

Turns the LCD Display on automatically at a preset time. Controls the mode and the volume level at the time the LCD Display turns on automatically.

## Off Timer

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time** ] → ▼→ ▼→ ▼ → ENTER→ [**Off Timer**] → ▲ , ▼ / ◄, ► → ENTER




Turns the LCD Display off automatically at a preset time.

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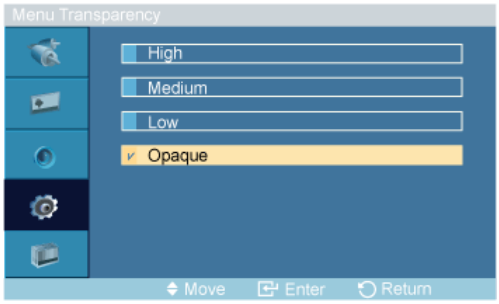
## Menu Transparency P A H M T C

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼ → ENTER → [**Menu Transparency**] → ▲, ▼ → ENTER

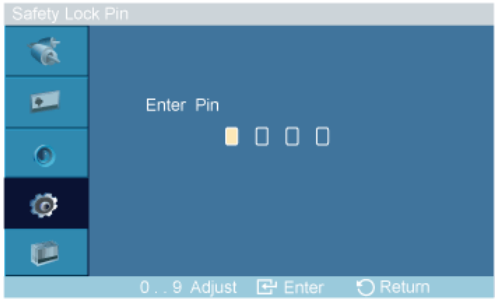



Change the transparency of the background of the OSD.

1. **High**
2. **Medium**
3. **Low**
4. **Opaque**

## Safety Lock PIN P A H M T C

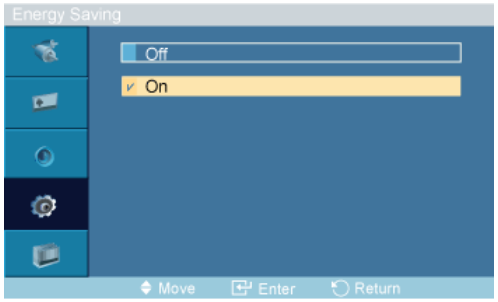
MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼ → ENTER → [**Safety Lock PIN** ] → [0 9] → [0 9] → [0 9] → [0 9]




The password can be changed.

## Energy Saving P A H M T C

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ENTER → [**Energy Saving**] → ▲, ▼ → ENTER




This feature adjusts the power consumption of the unit in order to save energy.

1. **Off**

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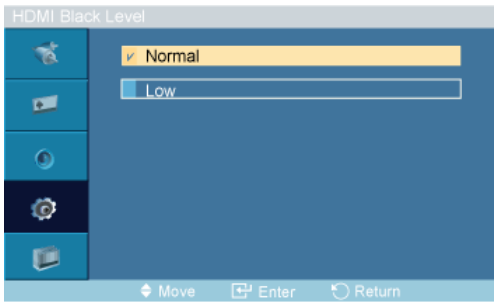
2. **On**

**Note**

If you want to reduce the standby power consumption, set **Energy Saving** to **On**. However, when **Energy Saving** is **On**, you cannot use the remote Power On function of the MDC and the WOL (Wake On LAN) function of MagicInfo.

## HDMI Black Level

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ENTER → [**HDMI Black Level** ] → ▲ , ▼ → ENTER




When a DVD or set-top box is connected to your TV via HDMI, it may cause a degradation in the screen quality, such as an increase in the black level, a low contrast, or discoloration, etc., depending on the external device connected. In this case, adjust the screen quality of your TV by configuring the **HDMI black level**.

1. **Normal**

2. **Low**

## Video Wall

A **Video Wall** is a set of video screens connected together, so that each screen shows a part of the whole picture or where the same picture is repeated on each screen.

When the **Video Wall** is on, you can adjust the **Video Wall** screen setting.

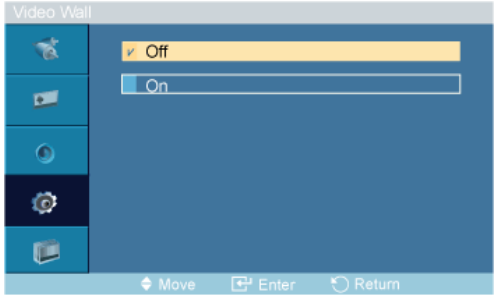
MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall** ]

**Note**

When **Video Wall** is running, the **Auto Adjustment**, **Image Lock**, and **Size** functions are not available. **Video Wall** does not operate in **MagicInfo** mode.

## Video Wall

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall** ]→ ENTER → [**Video Wall** ] → ▲ , ▼ → ENTER

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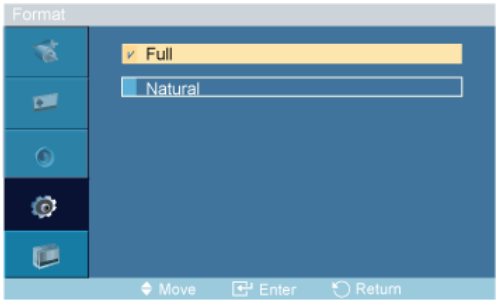
Turns Off/On the **Video Wall** function of the selected display Off/On.

1. **Off**
2. **On**

## Format

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall** ]→ ▼ → ENTER → [**Format**] → ▲ , ▼ → ENTER




The **Format** can be selected to see a divided screen.

1. **Full**

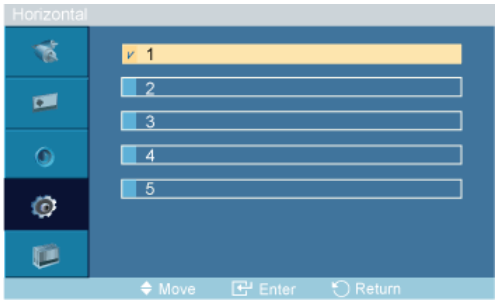
   Provides a full screen without any margins.

2. **Natural**

   Displays a natural image with the original aspect ratio intact.

## Horizontal

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall** ]→ ▼ → ▼ → ENTER → [**Horizontal**] → ▲ , ▼ → ENTER




Sets how many parts the screen should be divided horizontally.

Five adjustment levels: 1, 2, 3, 4, and 5.

## Vertical

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall** ]→ ▼ → ▼ → ▼ → ENTER → [**Vertical**] → ▲ , ▼ → ENTER

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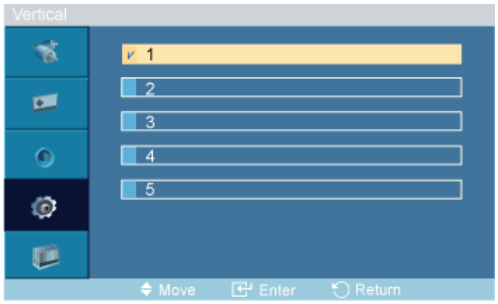


Sets how many parts the screen should be divided vertically.

Five adjustment levels: 1, 2, 3, 4, and 5.

## Screen Divider

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall** ]→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Screen Divider**]

The screen can be divided into several images. A number of screens can be selected with a different layout when dividing.

- Select a mode in Screen Divider.
- Select a display in Display Selection.
- The selection will be set up by pressing a number in the selected mode.

## Safety Screen PASCHMC

The **Safety Screen** function is used to prevent afterimages that may appear when a still picture is displayed on the screen over a long time.

- The **Safety Screen** function scrolls the screen for the specified period of time.
- This function is not available when the power is turned off.

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**]

## Pixel Shift

## Pixel Shift

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ENTER → [**Pixel Shift**] → ▲ , ▼ → ENTER

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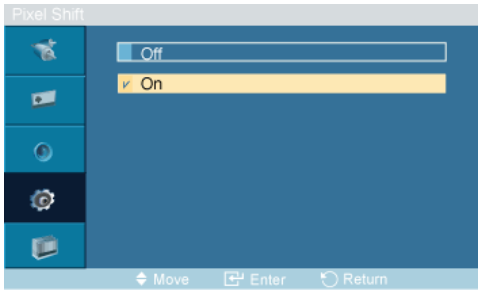



To prevent after-images on the screen you can use this function, so that every minute pixels on the LCD are moved in horizontal or vertical direction.

1. **Off**

2. **On**

## Horizontal Dot

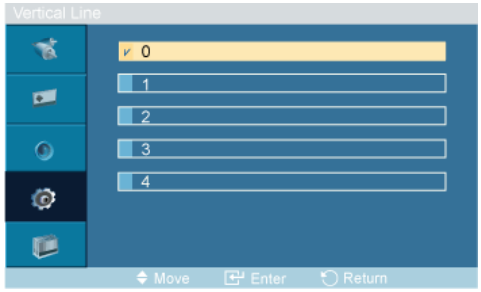
MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ▼ → ENTER → [**Horizontal Dot**] → ▲ , ▼ → ENTER

Sets how many pixels the screen moves horizontally.

Five adjustment levels: 0, 1, 2, 3, and 4.

## Vertical Line

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ▼ →▼ → ENTER → [**Vertical Line**] → ▲ , ▼ → ENTER




Sets how many pixels the screen moves vertically.

Five adjustment levels: 0, 1, 2, 3, and 4.

## Time

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ▼ →▼ →▼ → ENTER → [**Time**] → ▲ , ▼ → ENTER

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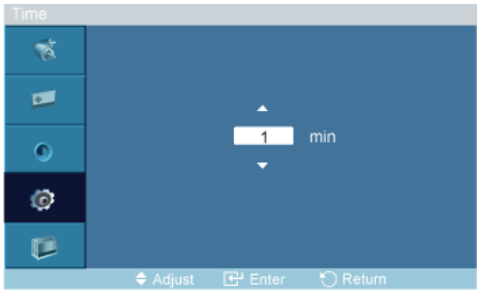
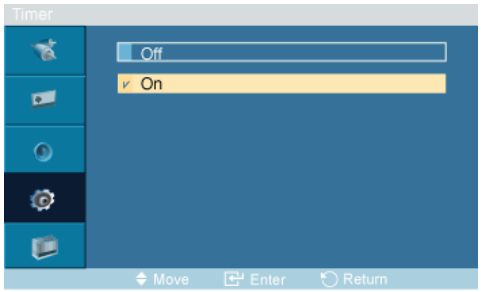



Set the time interval for performing the horizontal or vertical movement, respectively.

## Timer

## Timer

MENU → ▼ → ▼ → ▼ → ENTER → [**Setup**] → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ENTER → [**Timer**] → ▲ , ▼ → ENTER




You can set the timer for Screen Burn Protection.

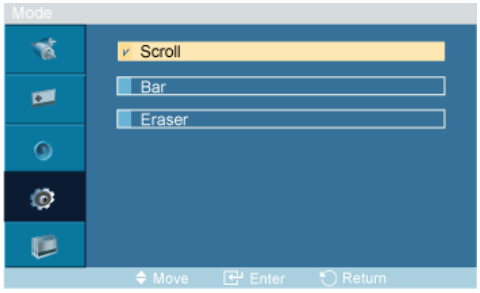
If you start the operation to erase any residual image, the operation will be performed for the set period of time and then automatically finish.

1. **Off**

2. **On**

## Mode

MENU → ▼ → ▼ → ▼ → ENTER → [**Setup**] → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ▼ → ENTER → [**Mode**] → ▲ , ▼ → ENTER




You can change the **Safety Screen** Type.

1. **Scroll**

2. **Bar**

3. **Eraser**

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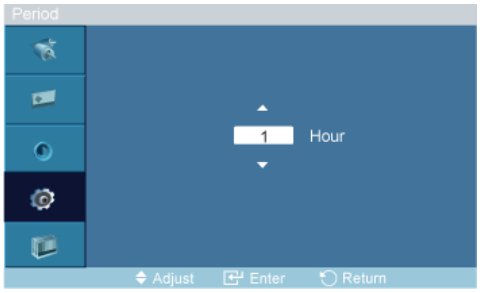
## Period

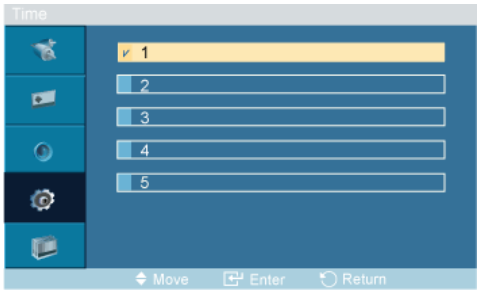
MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ▼ → ▼ → ENTER → [**Period**] → ▲ , ▼ → ENTER




Use this function to set the execution period for each mode set in the timer.

## Time

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ▼ → ▼ → ▼ → ENTER → [**Time**] → ▲ , ▼ → ENTER

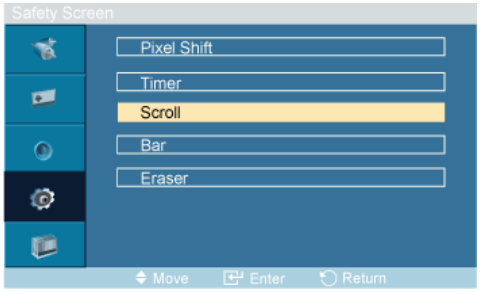



Within the set period of time specify a time for execution.

- **Mode-Scroll** : 1~5 **sec**
- **Mode-Bar**, **Eraser** : 10~50 **sec**

## Scroll

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ▼ → ENTER → [**Scroll**]




This function prevents after-images on the screen by moving all the pixels on the LCD according to a pattern.

Use this function when there are remaining after-images or symbols on the screen, especially when you displayed a still image on the screen for a long time.

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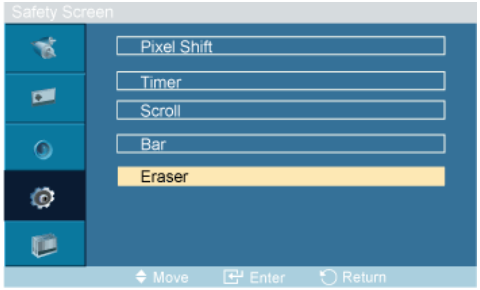
## Bar

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ▼ → ▼ →ENTER → [**Bar**]

This function prevents after-images on the screen by moving long black and white vertical lines.

## Eraser

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ▼ → ▼ → ▼ →ENTER → [**Eraser**]




This function prevents after-images on the screen by moving a rectangular pattern.

## Resolution Select

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →ENTER → [**Resolution Select** ] → ▲ , ▼ → ENTER

When the picture is not displayed properly on the screen when setting the graphics card resolution of the computer to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768@ 60Hz or 1366 x768 @ 60Hz, by using this function(Resolution Select), you can have the picture displayed on the screen in the specified resolution.

**Note**

Available in **PC** mode only

1. **Off**
2. **1024 X 768**

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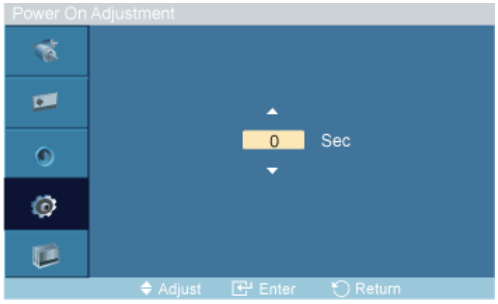
3. **1280 X 768**
4. **1360 x 768**
5. **1366 X 768**

**Note**

Selecting the menu is only allowed when the graphics resolution is set to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768@ 60Hz or 1366 x768 @ 60Hz.

## Power On Adjustment P A H M T C

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ENTER → [**Power On Adjustment** ] → ▲ , ▼ → ENTER

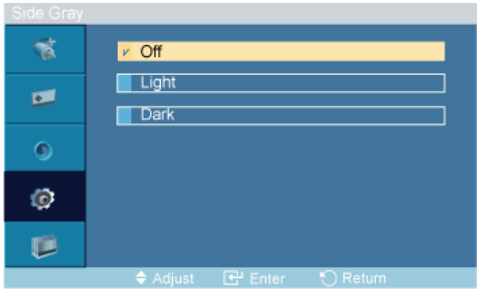



Adjusts the Power On time for the screen.

Caution: Set the Power On time to be longer to avoid overvoltage.

## Side Gray P A H M T C

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ENTER → [**Side Gray**] → ▲ , ▼ → ENTER




Select the brightness of the grey for the screen background.

1. **Off**
2. **Light**
3. **Dark**

## Reset

Reverts the product settings to factory defaults. The Reset function is only available when **PC** / **DVI** is being used.

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MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ENTER → [**Reset** ]

## Image Reset P

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ENTER → [**Reset** ]→ ENTER → [**Image Reset** ] → ◀, ▶→ ENTER

**Note**

Available in **PC** mode only

**Note**

The Reset function is not available when **Video Wall** is **On**.

## Color Reset P A H M T C

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ENTER → [**Reset** ]→ ▼→ ENTER → [**Color Reset** ] → ◀, ▶ → ENTER

## Lamp Control P A H M T

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ▼ → ENTER → [**Lamp Control** ]

→ ◀, ▶ → ENTER

Adjusts the inverter lamp in order to reduce energy consumption.

**Note**

This function does not operate when **Dynamic Contrast** is set to **On** in **PC**, **DVI**, **AV**, **HDMI**, **TV** modes.

## Multi Control

### Available Modes

- P **PC / BNC / DVI**
- A **AV**
- H **HDMI**
- M **MagicInfo**
- T **TV**
- C **Component**

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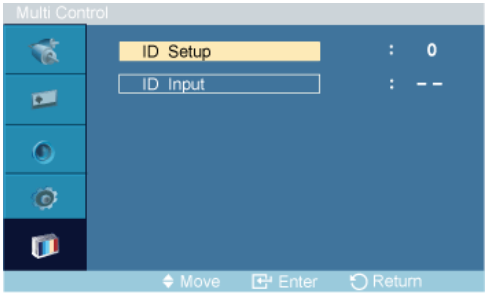
## Multi Control PAHMTC

Assigns an individual ID to the SET.

MENU → ▼ →▼ →▼ → ▼ → ENTER → [**Multi Control** ] → ENTER → ▲ , ▼ → [0~9]




- **ID Setup**

  Assigns distinctive IDs to the SET.

- **ID Input**

  Use to select the transmitter functions of the individual SET. Only a SET where the ID corresponds to the transmitter setting becomes activated.

## MagicInfo

### Available Modes

- P **PC / BNC / DVI**
- A **AV**
- H **HDMI**
- M **MagicInfo**
- T **TV**
- C **Component**

**Note**

- The operating system for this set only supports English so the other languages might be corrupted on the screen.
- For **MagicInfo**, a remote control is available for **MagicInfo**. However, it is recommended using a separate USB keyboard.
- For **MagicInfo** in Device mode, moving external devices while booting may cause errors. Set up external devices only if the LCD Display turns on.
- Do not unplug the LAN cable used for the network (ex: video display). Otherwise, the program (MagicInfo) may stop. If you do unplug the cable, restart the system.
- Do not unplug the LAN cable used by an USB device (ex: video display). Otherwise, the program (MagicInfo) may stop.
- To access other sources, press the SOURCE button in **MagicInfo**.

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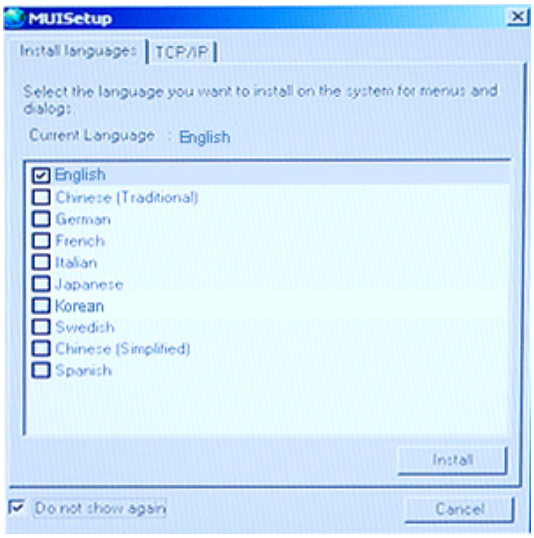
- The preset password for the LCD Display is "000000".
- The server program's Power-On option works only if the LCD Display's power is completely shut off.

  Please make sure not to use the Power-On option when the LCD Display is in the process of shutting down since this may cause system errors on the LCD Display.
- In the OSD image of **MagicInfo**, Network mode is the same as Device.
- When using **MagicInfo** with the MagicInfo Pro Server Program: perform Network mode.
- When using **MagicInfo** with the device directly connected to LCD Display : execute Device mode.
- Press ALT + F12 to directly go to the **MagicInfo** Window screen.
- To setup **MagicInfo** on a Windows screen, a keyboard and mouse are required.
- To setup **MagicInfo** on a Windows screen, refer to the MagicInfo Server Help.

  It is highly recommended not to turn off the AC power during an operation.
- For pivoted LCD Displays, ticker transparency is not supported.
- For pivoted LCD Displays, a screen resolution of up to 720*480(SD) is supported for movies.
- For drive D:, **EWF** is not applied.
- When the contents of Setup have been changed when **EWF** is in the **Enable** state, to save the changes in the disk, you must **Commit** them.
- By selecting **Disable**, **Enable** or **Commit**, the system is restarted.

## Magicinfo




1. Select **Magicinfo** in the **Source List** menu.

2. The MUTSetup screen appears.

Select the language you want to use.

3. Press the Install button.

If you select Do not show again and click the Install button, the Scheduler screen is displayed after rebooting.

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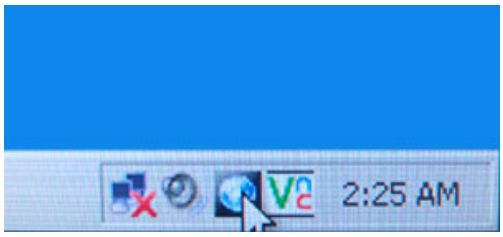
4. Connect your keyboard and mouse and press the “ALT + F12” keys on your keyboard.

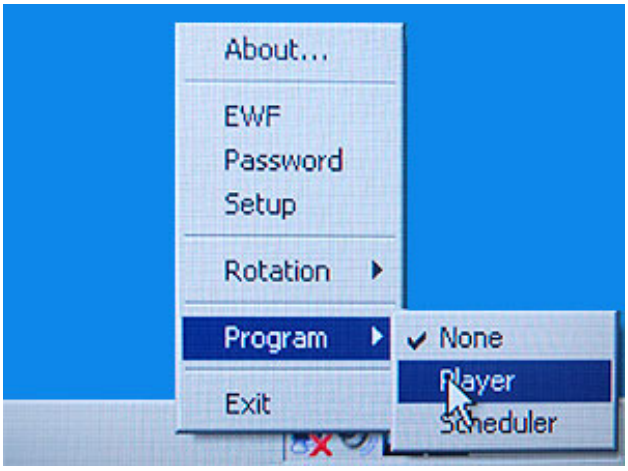
5. The Windows Desktop is displayed and the Magicinfo pro icon (the image will be inserted) appears. Move the cursor over the icon.

**Note**

If the **Magicinfo** icon is not displayed on the notification area, double click the **Magicinfo** icon on the window desktop. The icon will appear.




6. Right-click on the Magicinfo pro icon (the image will be inserted) and select 'Program' --> 'player' from the displayed menu.




7. The Player screen of Magicinfo pro is displayed.

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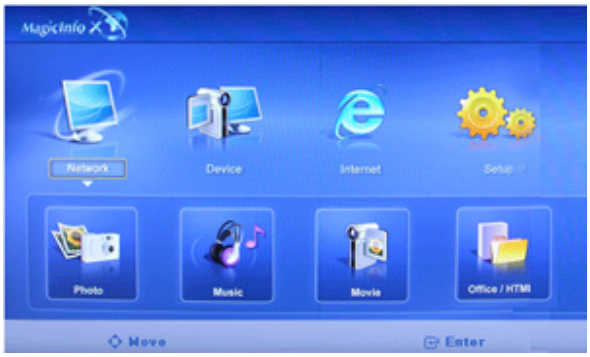


**Note**

To finish the MagicInfo, press ALT + F12.

## Photo M

The JPEG, BMP file format are supported.

## Auto

Automatically fits the image to the window.

## Original

Shows the properties of the original file.

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## Slide Show

Displays the properties of the original file as they are.

## Interval

Controls the time intervals between image files for a slide show. (5 **Sec**, 10 **Sec**, 20 **Sec**, 30 **Sec**, 60 **Sec**)

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## Rotation

Displays an image file by turning it clockwise by 90 degrees.

## Zoom

Displays a reduced picture.

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## Close

Closes the image control Menu.

## Music

The MP3 file format is supported.

## Movie

The MPEG1, WMV file format are supported.

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## Play

Plays a movie file.

## Full Size

Plays a movie file in full screen.

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## OFFICE / HTML

PPT(Power Point), DOC(MS Word), XLS(MS Excel), PDF, HTML, HTM files are displayed.

**Note**

- Install the proper viewer(freeware) program to see the MS Office(Word, Excel, Power Point) or PDF doucuments.

## Internet

Connects to the Internet

## Setup

Sets various functions in **MagicInfo** mode. A password must be entered to access **Setup** mode.

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## Schedule View

Displays a schedule.

## TCP/IP

Changes the TCP/IP settings.

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## Connection

Modifies the network settings.

## Password

The password can be changed.

- The password should be between 6 and 12 characters in numeric format.

  (You should enter a password between 6 and 12 characters in numeric format)

- If you enter the wrong password three times, the setup configuration is reset and a warning message appears from the server.

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- If you forget the password, enter Info, 8, 2 and 4 on the remote control to initialize the password. This will reset the previous settings of Setup mode.

## File

**Local** : You can delete or copy files on both local and removable disks.

## Play Option

You can set the repeat play and screen settings.

### Repeat : Determines the repeat option for playing movies and music.

- **None** - Select No Repeat to play a movie or tune in the list only once.

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- **File Repeat** - Select Repeat File to play a movie or tune in the list repeatedly.
- **List Repeat** - Select Repeat List to play movies or tunes in the list in sequence repeatedly.

### Rotation - Sets the picture orientation.

- **Landscape** - Sets the screen resolution to 1366x768 pixels.
- **Portrait** - Sets the screen resolution to 768x1366 pixels.

### EWF(Enhanced Write Filter) : Prevents change to and loss of the data saved on the disk.

- **Disable** - Disables **EWF** to allow saved data to be changed data on the protected disk (drive C:). When switching from the **Enable** to the **Disable** state, you can select **Commit**.
- **Enable** - Enables **EWF** to prevent saved data to be changed on the protected disk (drive C:).
- **Commit** - **Commit** the changed data to the protected disk (drive C:) when **EWF** is in the **Enable** state. **Commit** is not available when **EWF** is in the **Disable** state.

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# Troubleshooting

## Self-Test Feature Check

**Note**

Check the following items yourself before calling for assistance. Contact a Service Center for problems that you cannot solve by yourself.

## Self-Test Feature Check

1. Turn off both your computer and the LCD Display.
2. Unplug the video cable from the back of the computer.
3. Turn on the LCD Display.

   The figure shown below ("**Check Signal Cable**") appears on a black background when the LCD Display is working normally even though no video signal is detected: While in the Self-Test mode, the LED power indicator remains green and the figure moves around on the screen.

4. Turn off your LCD Display and reconnect the video cable; then turn on both your computer and the LCD Display

If your LCD Display screen remains blank after using the previous procedure, check your video controller and computer system; your LCD Display is functioning properly.

## Warning Messages

You can even view the screen at a resolution of 1360(1920) x 768(1080). However, you will receive the following message for a minute; You can choose to change the screen resolution or stay in the current mode during that time. And if the resolution is more than 85Hz, you will see the black screen because the LCD Display does not support over 85Hz.

**Note**

Refer to Specifications > Preset Timing Modes for the resolutions or frequencies supported by the LCD Display.

## Maintenance and Cleaning

1) Maintaining the LCD Display Case.

Clean with a soft cloth after disconnecting the power cord.

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- Do not use benzene, thinner or other flammable substances, or a wet cloth.
- We recommend that a SAMSUNG cleansing agent is used to prevent damage to the screen.

2) Maintaining the Flat Panel Display Screen.

Clean with a soft cloth (cotton flannel) smoothly.

- Never use acetone, benzene or thinner.

  (They may cause flaws or deformation of the screen surface.)
- The user will be required to pay costs and related expenses for repairing damages caused.

## Symptoms and Recommended Actions

**Note**

A LCD Display recreates visual signals received from the computer. Therefore, if there is a problem with the computer or the video card, this can cause the LCD Display to become blank, have poor coloring, become noisy, and video mode not supported, etc. In this case, first check the source of the problem, and then contact a Service Center or your dealer.

1. Check if the power cord and the video cables are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.

   (If it does, request an a service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if you installed the Adaptor (video).
4. Check if the scanning ratio of the video screen is set to between 50 Hz ~ 85 Hz.

   (Do not exceed 60Hz when using the maximum resolution.)
5. If you have problems in installing the Adaptor (video) driver, boot the computer in Safe Mode, remove the Display Adaptor in the "Control Panel –> System –> Device Administrator" and then reboot the computer to reinstall the Adaptor (video) driver.

## Check List

**Note**

- The following table lists possible problems and their solutions. Before calling for assistance, check the information in this section to see if you can remedy any problems for yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.
- For more network-related information, refer to the MagicInfo Troubleshooting section.

## Problems related to the Installation (PC Mode)

**Note**

Problems related to the LCD Display installation and their solutions are listed.

Q: The LCD Display screen flickers.

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A: Check if the signal cable between the computer and the LCD Display is securely connected.

(Refer to Connecting a Computer)

## Problems related to the Screen

**Note**

Problems related to the LCD Display screen and their solutions are listed.

Q: The screen is blank and the power indicator is off.

A: Ensure that the power cord is firmly connected and the LCD Display is on.

(Refer to the Connecting a Computer)

Q: "**Check Signal Cable**" message.

A: Ensure that the signal cable is firmly connected to the PC or video sources.

(Refer to the Connecting a Computer)

A: Ensure that the PC or video sources are turned on.

Q: "**Not Optimum Mode**" message.

A: Check the maximum resolution and the frequency of the video Adaptor.

A: Compare these values with the data in the Preset Timing Modes Chart.

Q: The picture rolls vertically.

A: Check if the signal cable is securely connected. Re-connect it, if necessary.

(Refer to Connecting a Computer)

Q: The image is not clear; picture is blurred.

A: Run Frequency **Coarse** and **Fine** tuning.

A: Turn on again after removing all accessories (video extension cable, etc.)

A: Set the resolution and frequency to the recommended ranges.

Q: The picture image is unstable and shakes.

A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.

Q: Ghost images are shown in the picture.

A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.

Q: The image is too light or too dark.

A: Adjusts the **brightness** and **contrast**.

(Refer to the **Brightness**, **Contrast**)

Q: The screen color is inconsistent.

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A: Adjust color using **Custom** under OSD Color Adjustment menu.

Q: The color image is distorted by dark shadows.

A: Adjust color using **Custom** under OSD Color Adjustment menu.

Q: The color white is poor.

A: Adjust color using **Custom** under OSD Color Adjustment menu.

Q: The Power Indicator blinks.

A: The LCD Display is currently saving the changes made in the settings to the OSD memory.

Q: The screen is blank and the power indicator light blinks every 0.5 or 1 seconds.

A: The LCD Display is using its power management system.

A: Press any key on the keyboard.

Q: The screen is blank and it is blinking.

A: If you see the "**TEST GOOD**" message on the screen when you pressing the MENU button, check the cable connection between the LCD Display and the computer to ensure that the connector is properly connected.

## Problems related to Audio

**Note**

Problems related to audio signals and their solutions are listed below.

Q: No sound.

A: Ensure that the audio cable is firmly connected to both the audio-in port on your LCD Display and the audio-out port on your sound card.

(Refer to the Connecting a Computer)

A: Check the volume level.

Q: The sound level is too low.

A: Check the volume level.

A: If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.

Q: The sound is too high or too low.

A: Adjusts the **Treble** and **Bass** to the appropriate levels.

## Problems related to the Remote Control

**Note**

Problems related to the remote control and their solutions are listed.

Q: The remote control buttons do not respond.

A: Check the polarities (+/-) of the batteries.

A: Check if the batteries are empty.

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A: Check if the power is on.

A: Check if the power cord is securely connected.

A: Check if a special fluorescent or neon lamp is on in the vicinity.

## Problems related to MagicInfo

**Note**

Making a Bootable USB Flash Disk.

Q: Making a Bootable USB Flash Disk

A: 1) You can turn a common 512-MB or bigger USB storage media into a bootable disk using a USB bootable disk creation tool. (For example, the HP USB Disk Storage Format Tool)

A: 2) Copies the OS ghost image and executables to your USB disk.

A: 3) Enter the BIOS menu of your set by pressing the F2 key in the BIOS logo screen. Then, enable the USB Boot First option by selecting that option and pressing the Enter key in the Boot menu.

A: 4) Switch your set on while your USB disk is connected and boot up in DOS mode.

A: 5) Run C:\ghost.exe and choose Local → Partition → From Image from the menu. Choose the ghost image to update your USB disk with and choose the target disk.

A: 6) When the ghost image update finishes, the set will be rebooted automatically.

## Q & A

Q: How can I change the frequency?

A: The frequency can be changed by reconfiguring the video card.

**Note**

that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)

Q: How can I Adjusts the resolution?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Settings.

A: Windows ME/2000:

Set the resolution in the Control Panel → Display → Settings.

* Contact the video card manufacturer for details.

Q: How can I set the Power Saving function?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

A: Windows ME/2000:

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Set the resolution at the Control Panel → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

Q: How can I clean the outer case/LCD Panel?

A: Disconnect the power cord and then clean the LCD Display with a soft cloth, using either a cleaning solution or plain water.

Do not leave any detergent or scratches on the case. Do not let any water enter the LCD Display.

Q: How can I play the video?

A: The video supports the MPEG1 and WMV codecs only. Install the corresponding codec to play the video. Note that some of the codecs can be incompatible.

**Note**

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

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# Specifications

## General

| General | | |
|---|---|---|
| Model Name | SyncMaster 400MP(n)<br>SyncMaster 460MP(n) | |
| **LCD Panel** | | |
| Size | SyncMaster 400MP(n) | 40 " Diagonal (101 cm) |
| | SyncMaster 460MP(n) | 46 " Diagonal (116 cm) |
| Display area | SyncMaster 400MP(n) | 885.17 mm (H) X 497.7 mm (V) |
| | SyncMaster 460MP(n) | 1018.08 mm (H) X 572.7 mm (V) |
| Pixel Pitch | SyncMaster 400MP(n) | 0.648 mm (H) X 0.648mm (V) |
| | SyncMaster 460MP(n) | 0.53025 mm (H) x 0.53025 mm (V) |
| **Synchronization** | | |
| Horizontal | 30 ~ 81 kHz | |
| Vertical | 56 ~ 85 Hz | |
| **Display Color** | | |
| 16.7 M | | |
| **Resolution** | | |
| Optimum resolution | SyncMaster 400MP(n) | 1360 x 768 @ 60 Hz/1366 x 768 @ 60 Hz depends on graphics card used |
| | SyncMaster 460MP(n) | 1920 x 1080 @ 60 Hz |
| Maximum resolution | SyncMaster 400MP(n) | 1920 x 1080 @ 60 Hz (RB) |
| | SyncMaster 460MP(n) | 1920 x 1080 @ 60 Hz |
| **Input Signal, Terminated** | | |
| RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB<br>0.7 Vp-p ±5 %<br>Separate H/V sync, Composite, SOG<br>TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V) | | |

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**Maximum Pixel Clock**

165MHz (Analog,Digital)

**Power Supply**

AC 100 - 240 V~ (+/- 10 %), 50/60 Hz ± 3 Hz

**Signal Cable**

15pin-to-15pin D-sub cable, Detachable

DVI-D to DVI-D connector, Detachable

**Dimensions (W x H x D) / Weight**

| | |
|---|---|
| SyncMaster 400MP(n) | 971.0 x 582.0 x 119.0 mm / 38.2 x 22.9 x 4.7 inch (Without Stand)<br><br>971.0 x 643 x 311.0 mm / 38.2 x 25.3 x 12.2 inch (With Stand) / 19.0 kg / 41.9 lbs<br><br>(With protection glass-option) 22.5 kg / 49.6 lbs |
| SyncMaster 460MP(n) | 1102.0 x 658.0 x 125.5 mm / 43.4 x 25.9 x 4.9 inch (Without Stand)<br><br>1102.0 x 719.0 x 311.0 mm / 43.4 x 28.3 x 12.2 inch (With Stand) / 27.0 kg / 59.5 lbs<br><br>(With protection glass-option) 32.0 kg / 70.5 lbs |

**VESA Mounting Interface**

600 x 400 mm

**Environmental considerations**

| | |
|---|---|
| Operating | Temperature : 50°F ~ 104°F (10°C ~ 40°C)<br><br>Humidity : 10 % ~ 80 %, non-condensing |
| Storage | Temperature : -4°F ~ 113°F (-20°C ~ 45°C)<br><br>Humidity : 5 % ~ 95 %, non-condensing |

**Plug and Play Capability**

This LCD Display can be installed on any Plug & Play compatible system. The interaction of the LCD Display and the computer systems will provide the best operating conditions and LCD Display settings. In most cases, the LCD Display installation will proceed automatically, unless the user wishes to select alternate settings.

**Dot Acceptable**

TFT-LCD panels manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above are used for this product. But the pixels of RED, GREEN, BLUE and WHITE color appear to be bright sometimes or some black pixels may be seen. This is not from bad quality and you can use it without any problems.

For example, the number of TFT-LCD sub pixels contained in this product are 3,133,440 (6,220,800).

**Note**

Design and specifications are subject to change without prior notice.

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**Class B Equipment (Information Communication equipment for residential use)**

This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

## MagicInfo - Client

**Note**

This is activated when a network box is installed in the MPn or MP model.

| Item | | Specification | Remarks |
|---|---|---|---|
| LAN | | 1 Gbps | |
| USB | | Keyboard/Mouse, Mass Storage Device Compatible | USB removable storage can be supported. |
| Contents | Photo | Supported File Format : BMP/ JPEG | 2274x1704 or less |
| | Music | Supported File Format : MP3 | Sound bandwidth : 50 Hz to 15 kHz |
| | Movie | - MPEG1, WMV<br>- Max 1280 x 720 30 fps | |
| | File | MS Office(Word, Excel, Power Point), HTML, PDF | - Some files may not be supported depending on the format or the version.<br>- Install the proper viewing (freeware) program to see MS Office (Word, Excel, Power Point) or PDF documents. |
| Internet Browser | | MS Internet Explorer | Not Support Flash, Java Applet, Security Site |
| Language | | English | |
| OS | | Windows XP Embedded | |

## MagicInfo Pro - Server Requirement

**Note**

This is activated when a network box is installed in the MPn or MP model.

| | CPU | RAM | Ethernet | OS | Application |
|---|---|---|---|---|---|
| Minimum | P1.8 GHz | 256 M | 100 M / 1 G | Windows XP | WMP 9 or later |
| Recommended | P3.0 GHz | 512 M | 100 M / 1 G | Windows XP | WMP 9 or later |

## PowerSaver

This LCD Display has a built-in power management system called PowerSaver. This system saves energy by switching your LCD Display to low-power mode when it has not been used for a certain amount of time. The LCD Display automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your LCD Display OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant

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video card installed in your computer. Use the software utility installed on your computer to set up this feature.

## PowerSaver (When used as a Network monitor)

| State | | Normal Operation | Power saving mode | Power off (Power-button) | Power off (Power-switch) |
|---|---|---|---|---|---|
| Power Indicator | | On | Blinking | On | Off |
| Power Consumption | 400MPn | 228 W | Less than 5 W | Less than 5 W | 0 W |
| | 460MPn | 310 W | Less than5 W | Less than 5 W | 0 W |

## PowerSaver (When used as a normal monitor)

| State | | Normal Operation | Power saving mode | Power off (Power-button) | Power off (Power-switch) |
|---|---|---|---|---|---|
| Power Indicator | | On | Blinking | On | Off |
| Power Consumption | 400MP | 180 W | Less than 2 W | Less than 2 W | 0 W |
| | 460MP | 240 W | Less than2 W | Less than 2 W | 0 W |

## Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjusts the screen as follows.

| Display Mode | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Pixel Clock (MHz) | Sync Polarity (H/V) |
|---|---|---|---|---|
| IBM, 640 x 350 | 31.469 | 70.086 | 25.175 | +/- |
| IBM, 640 x 480 | 31.469 | 59.940 | 25.175 | -/- |
| IBM, 720 x 400 | 31.469 | 70.087 | 28.322 | -/+ |
| MAC, 640 x 480 | 35.000 | 66.667 | 30.240 | -/- |
| MAC, 832 x 624 | 49.726 | 74.551 | 57.284 | -/- |
| MAC, 1152 x 870 | 68.681 | 75.062 | 100.000 | -/- |
| VESA, 640 x 480 | 37.861 | 72.809 | 31.500 | -/- |
| VESA, 640 x 480 | 37.500 | 75.000 | 31.500 | -/- |
| VESA, 800 x 600 | 35.156 | 56.250 | 36.000 | +/+ |
| VESA, 800 x 600 | 37.879 | 60.317 | 40.000 | +/+ |
| VESA, 800 x 600 | 48.077 | 72.188 | 50.000 | +/+ |
| VESA, 800 x 600 | 46.875 | 75.000 | 49.500 | +/+ |
| VESA, 848 x 480 | 31.020 | 60.000 | 33.750 | +/+ |
| VESA, 1024 x 768 | 48.363 | 60.004 | 65.000 | -/- |
| VESA, 1024 x 768 | 56.476 | 70.069 | 75.000 | -/- |
| VESA, 1024 x 768 | 60.023 | 75.029 | 78.750 | +/+ |
| VESA, 1152 x 864 | 67.500 | 75.000 | 108.000 | +/+ |
| VESA, 1280 x 768 | 47.776 | 59.870 | 79.500 | -/+ |

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| Display Mode | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Pixel Clock (MHz) | Sync Polarity (H/V) |
|---|---|---|---|---|
| VESA, 1280 X 960 | 60.000 | 60.000 | 108.000 | +/+ |
| VESA, 1280 X 1024 | 63.981 | 60.020 | 108.000 | +/+ |
| VESA, 1280 X 1024 | 79.976 | 75.025 | 135.000 | +/+ |
| VESA, 1360 x 768 | 47.712 | 60.015 | 85.500 | +/+ |
| VESA, 1600 x 1200 | 75.000 | 60.000 | 162.000 | +/+ |
| VESA, 1920 x 1080 | 66.587 | 59.934 | 138.500 | +/- |

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle and the inverse number of the Horizontal Cycle is called the Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called the Vertical Frequency or Refresh Rate. Unit: Hz

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# Information

## For Better Display

Adjust the computer resolution and screen injection rate (refresh rate) on the computer as described below to enjoy the best picture quality. You can have an uneven picture quality on screen if the best picture quality is not provided for TFT-LCD.

- Resolution: 1360(1920) x 768(1080)
- Vertical frequency (refresh rate): 60 Hz

TFT-LCD panels manufactured by using advanced semiconductor technology with a precision of 1ppm (one millionth) and above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without any problems.

- For example, the number of TFT-LCD sub pixels contained in this product are 3,133,440 (6,220,800).

When cleaning the monitor and the panel outside, please apply the recommended small amount of cleaner by using a soft cloth to polish. Do not force the LCD area but rub softly. If excessive force is applied, you may stain it.

If you are not satisfied with the picture quality, you can get better quality of picture by performing the "**Auto Adjustment** function" in display screen that is appeared as window termination button is pressed. If there's still noise after the automatic adjustment, use the **Fine**/**Coarse** adjustment function.

When viewing a fixed screen for an extended period of time, a residual image or blurriness may appear. Change the mode to energy save or set a screensaver to move the picture when you need to be away from the monitor for an extended period of time.

## PRODUCT INFORMATION (Image Retention Free)

*What is Image Retention ?*

Image retention may not occur when a LCD panel is operated under normal conditions.

Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (over 12 hours), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed. To prevent this, the accumulated voltage difference must be decreased.

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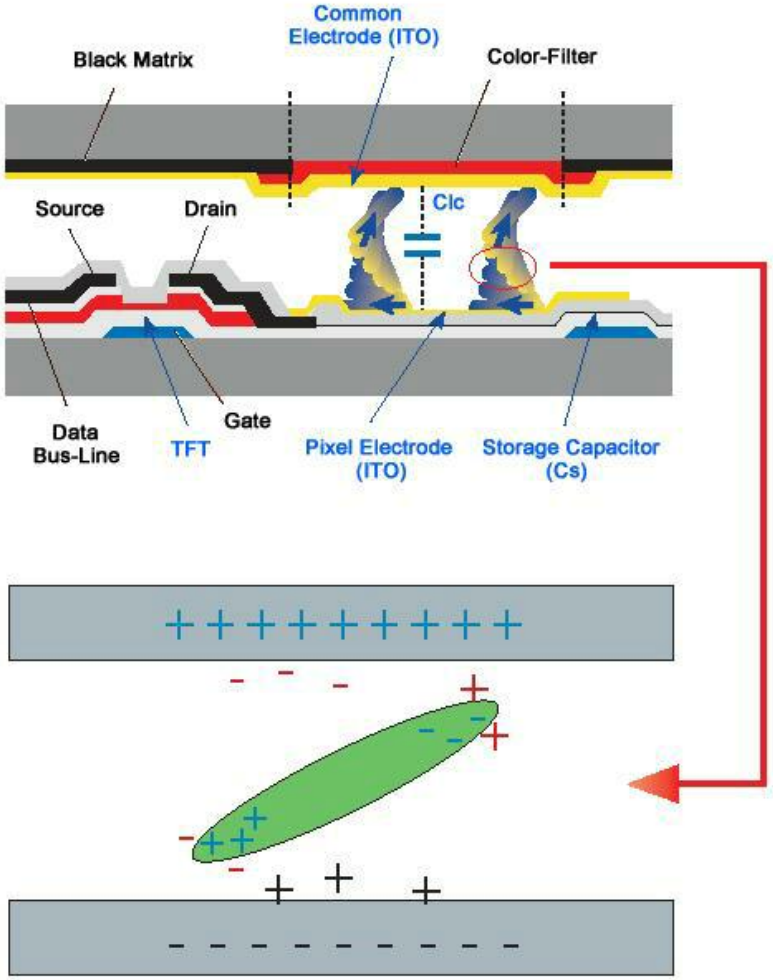
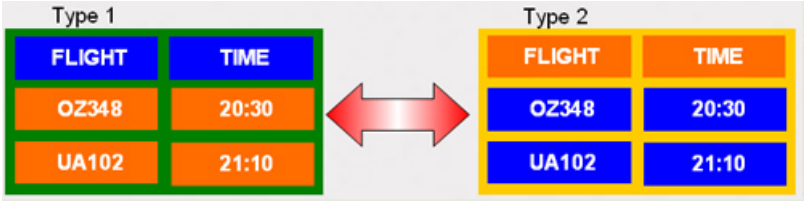



*Power Off, Screen Saver, or Power Save Mode*

- Turn the power off for 4 hours after 20 hours in use
- Turn the power off for 2 hours after 12 hours in use
- Set the Monitor to power off with the PC Display Properties Power Scheme.
- Use a Screen saver if possible - Screen saver in one color or a moving image is recommended.

*Change the Color Information periodically*




**Note**

Use Two different colors

Rotate the Color Information with 2 different colors every 30 minutes.

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- Avoid using a combination of characters and background color with large difference in luminance.

  Avoid using Grey colors, which can cause Image retention easily.

  Avoid: Colors with big difference in luminance (Black & White, Grey)

*Change the characters color periodically*

- Use Bright colors with little difference in luminance.

  - Cycle : Change the characters color and background color every 30 minutes

- Every 30 minutes, change the characters with movement.

- All area display Moving image together with Logo periodically.

  - Cycle: Display moving image together with Logo for 60 seconds after 4 hours in use.

- The best way to protect your monitor from Image retention is to turn Power off, or set your PC, or System to operate a Screen Saver program when you are not using it. Also Warranty service will be limited based on instruction guide.

*Apply the Screen Scroll function on Product*

- Apply the Screen Scroll function

  - Symptom: Horizontal Bar with Black Color move up and down.

### - Select method

- Instruction Guide : OSD Menu -> Set Up -> Safety Screen -> Screen Scroll
- Time Interval : 1 ~ 10 hours ( Recommend : 1 )
- Time Period : 1 ~ 5 second ( Recommend : 5 )

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**Note**

( Please check CD's User Guide at "OSD Function", some model's will not available )

*Apply the Screen Pixel function on Product*

- Apply the Screen Pixel function

  - Symptom: Dot with Black Color move up and down.

### - Select method

- Instruction Guide : OSD Menu -> Set Up -> Safety Screen -> Pixel
- Time Interval : 1 ~ 10 hours ( Recommend : 1 )
- Time Period : 10 ~ 50 second ( Recommend : 50 )

- Apply the Screen Bar function

  - Symptom: Horizontal / Vertical Bar with Black Color move up and down.

### - Select method

- Instruction Guide : OSD Menu -> Set Up -> Safety Screen -> Bar
- Time Interval : 1 ~ 10 hours ( Recommend : 1 )
- Time Period : 10 ~ 50 second ( Recommend : 50 )

**Note**

( Please check CD's User Guide at "OSD Function", some model's will not available. )

*Apply the Screen Erasing function on Product*

- Apply the Screen Erasing function

  - Symptom: 2 Vertical blocks move with erasing the display

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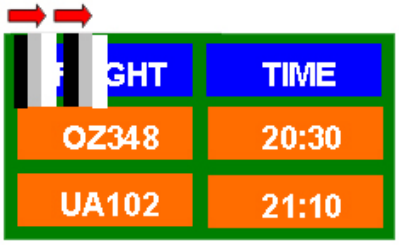


### - Select method

- Instruction Guide : OSD Menu -> Set Up -> Safety Screen -> Eraser
- Time Interval : 1 ~ 10 hours ( Recommend : 1 )
- Time Period : 10 ~ 50 second ( Recommend : 50 )

**Note**

( Please check CD's User Guide at "OSD Function", some model's will not available )

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# Appendix

## Contact SAMSUNG WORLDWIDE

**Note**

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

| | | |
|---|---|---|
| | **North America** | |
| U.S.A | 1-800-SAMSUNG(726-7864) | http://www.samsung.com/us |
| CANADA | 1-800-SAMSUNG(726-7864) | http://www.samsung.com/ca |
| MEXICO | 01-800-SAMSUNG(726-7864) | http://www.samsung.com/mx |
| | **Latin America** | |
| ARGENTINE | 0800-333-3733 | http://www.samsung.com/ar |
| BRAZIL | 0800-124-421<br>4004-0000 | http://www.samsung.com/br |
| CHILE | 800-SAMSUNG(726-7864) | http://www.samsung.com/cl |
| COLOMBIA | 01-8000112112 | http://www.samsung.com/co |
| COSTA RICA | 0-800-507-7267 | http://www.samsung.com/latin |
| ECUADOR | 1-800-10-7267 | http://www.samsung.com/latin |
| EL SALVADOR | 800-6225 | http://www.samsung.com/latin |
| GUATEMALA | 1-800-299-0013 | http://www.samsung.com/latin |
| HONDURAS | 800-7919267 | http://www.samsung.com/latin |
| JAMAICA | 1-800-234-7267 | http://www.samsung.com/latin |
| NICARAGUA | 00-1800-5077267 | http://www.samsung.com/latin |
| PANAMA | 800-7267 | http://www.samsung.com/latin |
| PUERTO RICO | 1-800-682-3180 | http://www.samsung.com/latin |
| REP. DOMINICA | 1-800-751-2676 | http://www.samsung.com/latin |
| TRINIDAD & TO-BAGO | 1-800-SAMSUNG(726-7864) | http://www.samsung.com/latin |
| VENEZUELA | 0-800-100-5303 | http://www.samsung.com/latin |
| | **Europe** | |
| AUSTRIA | 0810-SAMSUNG (7267864, € 0.07/min) | http://www.samsung.com/at |
| BELGIUM | 02 201 2418 | http://www.samsung.com/be |
| CZECH REPUBLIC | 800-SAMSUNG (800 - 726786) | http://www.samsung.com/cz |
| | [illegible] | |
| DENMARK | 8 - SAMSUNG (7267864) | http://www.samsung.com/dk |
| EIRE | 0818 717 100 | http://www.samsung.com/ie |
| FINLAND | 30-6227 515 | http://www.samsung.com/fi |
| FRANCE | 3260 dites SAMSUNG (€ 0,15/ Min) | http://www.samsung.com/fr |

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**Europe**

| | | |
|---|---|---|
| | 0825 08 65 65 (€ 0,15/Min) | |
| GERMANY | 01805 - SAMSUNG (7267864, € 0,14/Min) | http://www.samsung.de |
| HUNGARY | 06-80-SAMSUNG (726-7864) | http://www.samsung.com/hu |
| ITALIA | 800-SAMSUNG (726-7864) | http://www.samsung.com/it |
| LUXEMBURG | 02 261 03 710 | http://www.samsung.com/lu |
| NETHERLANDS | 0900-SAMSUNG (7267864, € 0,10/Min) | http://www.samsung.com/nl |
| NORWAY | 3 - SAMSUNG (7267864) | http://www.samsung.com/no |
| POLAND | 0-801-1SAMSUNG (172678) | http://www.samsung.com/pl |
| | 022-607-93-33 | |
| PORTUGAL | 808 20-SAMSUNG (7267864) | http://www.samsung.com/pt |
| SLOVAKIA | 0800-SAMSUNG (726-7864) | http://www.samsung.com/sk |
| SPAIN | 902-1-SAMSUNG(902 172 678) | http://www.samsung.com/es |
| SWEDEN | 075-SAMSUNG(726 78 64) | http://www.samsung.com/se |
| SWITZERLAND | 0848-SAMSUNG (7267864, CHF 0,08/Min) | http://www.samsung.com/ch |
| U.K | 0845 SAMSUNG (7267864) | http://www.samsung.com/uk |

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| ESTONIA | 800-7267 | http://www.samsung.ee |
| LATVIA | 8000-7267 | http://www.samsung.com/lv |
| LITHUANIA | 8-800-77777 | http://www.samsung.lt |
| KAZAKHSTAN | 8-10-800-500-55-500 | http://www.samsung.com/kz_ru |
| KYRGYZSTAN | 00-800-500-55-500 | |
| RUSSIA | 8-800-555-55-55 | http://www.samsung.ru |
| TADJIKISTAN | 8-10-800-500-55-500 | |
| UKRAINE | 8-800-502-0000 | http://www.samsung.ua |
| UZBEKISTAN | 8-10-800-500-55-500 | http://www.samsung.com/kz_ru |

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| AUSTRALIA | 1300 362 603 | http://www.samsung.com/au |
| CHINA | 800-810-5858 | http://www.samsung.com/cn |
| | 400-810-5858 | |
| | 010-6475 1880 | |
| | HONG KONG:3698 - 4698 | http://www.samsung.com/hk |
| INDIA | 3030 8282 | http://www.samsung.com/in |
| | 1-800-3000-8282 | |
| | 1800 110011 | |
| INDONESIA | 0800-112-8888 | http://www.samsung.com/id |
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| SINGAPORE | 1800-SAMSUNG(726-7864) | http://www.samsung.com/sg |
| THAILAND | 1800-29-3232, 02-689-3232 | http://www.samsung.com/th |
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| SOUTH AFRICA | 0860-SAMSUNG(726-7864) | http://www.samsung.com/za |
| TURKEY | 444 77 11 | http://www.samsung.com/tr |
| U.A.E | 800-SAMSUNG(726-7864) | http://www.samsung.com/ae |
| | 8000-4726 | |

## Terms

| | |
|---|---|
| Dot Pitch | The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm |
| Vertical Frequency | The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called the Vertical Frequency or Refresh Rate. Unit: Hz<br><br>Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz. |
| Horizontal Frequency | The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz |
| Interlace and Non-Interlace Methods | Showing the horizontal lines of the screen from the top to the bottom sequentially is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs. |
| Plug & Play | This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function. |
| Resolution | The number of horizontal and vertical dots used to compose the screen image is called the 'resolution'. This number shows the accuracy of the display. A high resolution is good for performing multiple tasks as more image information can be shown on the screen. |

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|---|---|
| | Example: If the resolution is 1360(1920) x 768(1080), this means the screen is composed of 1360(1920) horizontal dots (horizontal resolution) and 768(1080) vertical lines (vertical resolution). |
| SRS TS XT | This feature outputs sonorous and vivid 3D sound as for 5.1 channel speaker sound but through a 2-channel speaker. It has a good effect when stereo signals are input. |

## Correct Disposal

**Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only**

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

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